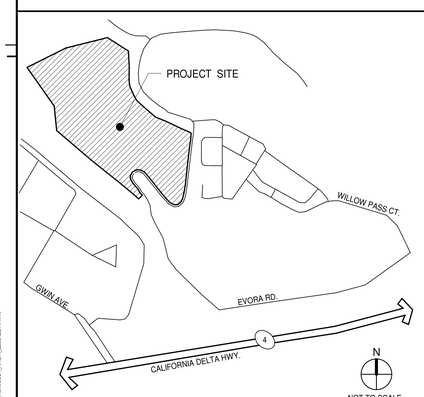
CAUTION: IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT

## ABBREVIATIONS

| | | | | | |
|---|---|---|---|---|---|
| ∠ | ANGLE | FLASH. | FLASHING | S. | SOUTH |
| ℄ | CENTERLINE | FLUOR. | FLUORESCENT | S.C. | SOLID CORE |
| # | POUND or NUMBER | FT. | FOOT or FEET | S.C.D. | SEAT COVER DISPENSER |
| & | AND | FTG. | FOOTING | S.D. | SOAP DISPENSER |
| (E) | EXISTING | FURR. | FURRING | S.N.D. | SANITARY NAPKIN DISPENSER |
| @ | AT | FUT. | FUTURE | S.N.R. | SANITARY NAPKIN RECEPTACLE |
| ~ | DIAMETER or ROUND | G.B. | GRAB BAR | S.S. | STAINLESS STEEL |
| Ø | DIAMETER | G.C. | GENERAL CONTRACTOR | S.SK. | SERVICE SINK |
| A.D. | AREA DRAIN | GA. | GAUGE | SCHED. | SCHEDULE |
| ACOUS. | ACOUSTICAL | GALV. | GALVANIZED | SECT. | SECTION |
| ACT. | ACOUSTICAL TILE | GL. | GLASS | SH. | SHELF |
| ADJ. | ADJUST, ADJUSTABLE or ADJACENT | GND. | GROUND | SHR. | SHOWER |
| AFF. | ABOVE FINISH FLOOR | GR. | GRADE | SHT. | SHEET |
| AGGR. | AGGREGATE | GYP. | GYPSUM | SIM. | SIMILAR |
| AL. | ALUMINUM | H.B. | HOSE BIBB | SPEC. | SPECIFIED or SPECIFICATION |
| APPROX. | APPROXIMATE(LY) | H.C. | HOLLOW CORE | SQ. | SQUARE |
| ARCH. | ARCHITECTURAL | H.M. | HOLLOW METAL | STA. | STATION |
| ASB. | ASBESTOS | HDWD. | HARDWOOD | STL. | STEEL |
| ASPH. | ASPHALT | HDWE. | HARDWARE | STOR. | STORAGE |
| B.O.C. | BOTTOM OF CONCRETE | HORIZ. | HORIZONTAL | STRL. | STRUCTURE or STRUCTURAL |
| B.O.D. | BOTTOM OF DECK | HR. | HOUR | SUSP. | SUSPENDED |
| B.O.M. | BOTTOM OF MULLION | HT. | HEIGHT | SYMM. | SYMMETRICAL |
| B.O.P. | BOTTOM OF PANEL | I.D. | INSIDE DIMENSION | T&G | TONGUE AND GROOVE |
| B.O.R. | BOTTOM OF REVEAL | INSUL. | INSULATION or INSULATED | T. | TREAD |
| B/S. | BUILDING STANDARD | INT. | INTERIOR | T.B. | TOWEL BAR |
| BD. | BOARD | JAN. | JANITOR | T.C. | TOP OF CURB |
| BITUM. | BITUMINOUS | JT. | JOINT | T.O.C. | TOP OF CONCRETE |
| BLDG. | BUILDING | K.O. | KNOCK-OUT | T.O.M. | TOP OF MULLION |
| BLK. | BLOCK | KIT. | KITCHEN | T.O.P. | TOP OF PARAPET |
| BLKG. | BLOCKING | LAB. | LABORATORY | T.O.R. | TOP OF REVEAL |
| BM. | BEAM | LAM. | LAMINATE(D) | T.O.REC. | TOP OF DEEP RECESS |
| BOT. | BOTTOM | LAV. | LAVATORY | T.O.W. | TOP OF WALL |
| C.B. | CATCH BASIN | LKR. | LOCKER | T.P. | TOP OF PAVEMENT |
| C.G. | CORNER GUARD | LT. | LIGHT | T.P.D. | TOILET PAPER DISPENSER |
| C.I. | CAST IRON | M.C. | MEDICINE CABINET | T.V. | TELEVISION |
| C.O. | CASED OPENING | M.O. | MASONRY OPENING | TEL. | TELEPHONE |
| C.O.M. | CENTER OF MULLION | MAX. | MAXIMUM | TER. | TERRAZZO |
| C.O.R. | CENTER OF REVEAL | MECH. | MECHANICAL | THK. | THICK |
| C.W. | COLD WATER | MEMB. | MEMBRANE | TYP. | TYPICAL |
| CAB. | CABINET | MET. | METAL | U.O.N. | UNLESS OTHERWISE NOTED |
| CEM. | CEMENT(ITIOUS) | MFR. | MANUFACTURER | UNF. | UNFINISHED |
| CER. | CERAMIC | MH. | MANHOLE | UR. | URINAL |
| CFCI. | CONT. FURNISHED / CONT. INSTALLED | MIN. | MINIMUM | VERT. | VERTICAL |
| CFOI. | CONT. FURNISHED / OWNER. INSTALLED | MIR. | MIRROR | VEST. | VESTIBULE |
| CLG. | CEILING | MISC. | MISCELLANEOUS | W. | WEST |
| CLKG. | CAULKING | MTD. | MOUNTED | W.C. | WATER CLOSET |
| CLO. | CLOSET | MUL. | MULLION | W/ | WITH |
| CLR. | CLEAR | N. | NORTH | W/O | WITHOUT |
| CNTR. | COUNTER | N.I.C. | NOT IN CONTRACT | WD. | WOOD |
| COL. | COLUMN | N.T.S. | NOT TO SCALE | WP | WATERPROOF |
| CONC. | CONCRETE | NO. | NUMBER | WSCT. | WAINSCOT |
| CONN. | CONNECTION | NOM. | NOMINAL | WT. | WEIGHT |
| CONSTR. | CONSTRUCTION | O.A. | OVERALL | | |
| CONT. | CONTINUOUS | O.C. | ON CENTER | | |
| CONTR. | CONTRACTOR | O.D. | OUTSIDE DIAMETER | | |
| CORR. | CORRIDOR | OBS. | OBSCURE | | |
| CPT. | CARPET | OFCI. | OWNER FURNISHED / CONT. INSTALLED | | |
| CTR. | CENTER | OFF. | OFFICE | | |
| CTSK. | COUNTER-SUNK | OFOI. | OWNER FURNISHED / OWNER INSTALLED | | |
| D. | DEEP | OPNG. | OPENING | | |
| D.F. | DRINKING FOUNTAIN | OPP. | OPPOSITE | | |
| D.O. | DOOR OPENING | P.C. | PRECAST | | |
| D.S. | DOWNSPOUT | P.J. | PANEL JOINT | | |
| D.S.P. | DRY STANDPIPE | P.LAM. | PLASTIC LAMINATE | | |
| DBL. | DOUBLE | P.T.D. | PAPER TOWEL DISPENSER | | |
| DEPT. | DEPARTMENT | P.T.R. | PAPER TOWER RECEPTACLE | | |
| DET. | DETAIL | PL. | PLATE | | |
| DIA. | DIAMETER | PLAS. | PLASTER | | |
| DIAG. | DIAGNONAL | PLYWD. | PLYWOOD | | |
| DIFF. | DIFFUSER | PR. | PAIR | | |
| DIM. | DIMENSION | PT. | POINT | | |
| DISP. | DISPENSER | PTN. | PARTITION | | |
| DN. | DOWN | Q.T. | QUARRY TILE | | |
| DR. | DOOR | R. | RISER | | |
| DWG. | DRAWING | R.D. | ROOF DRAIN | | |
| DWR. | DRAWER | R.O. | ROUGH OPENING | | |
| E. | EAST | R.W.L. | RAIN WATER LEADER | | |
| E.J. | EXPANSION JOINT | RAD. | RADIUS | | |
| E.P. | ELECTRIC PANELBOARD | REF. | REFERENCE | | |
| E.W.C. | ELECTRIC WATER COOLER | REFR. | REFRIGERATOR | | |
| EA. | EACH | REINF. | REINFORCE(D) | | |
| EL. | ELEVATION | REQ. | REQUIRED | | |
| ELEC. | ELECTRIC(AL) | RESIL. | RESILIENT | | |
| ELEV. | ELEVATOR | RGTR. | REGISTER | | |
| EMER. | EMERGENCY | RM. | ROOM | | |
| ENCL. | ENCLOSED or ENCLOSURE | RWD. | REDWOOD | | |
| EQ. | EQUAL | | | | |
| EQPT. | EQUIPMENT | | | | |
| EXP. | EXPANSION | | | | |
| EXPO. | EXPOSED | | | | |
| EXST. | EXISTING | | | | |
| EXT. | EXTERIOR | | | | |
| F.A. | FIRE ALARM | | | | |
| F.B. | FLAT BAR | | | | |
| F.D. | FLOOR DRAIN | | | | |
| F.E. | FIRE EXTINGUISHER | | | | |
| F.E.C. | FIRE EXTINGUISHER CABINET | | | | |
| F.H.C. | FIRE HOSE CABINET | | | | |
| F.O.C. | FACE OF CONCRETE | | | | |
| F.O.F. | FACE OF FINISH | | | | |
| F.O.M. | FACE OF MULLION | | | | |
| F.O.SH. | FACE OF SHEATHING | | | | |
| F.P. | FIREPROOF | | | | |
| F.S. | FULL SIZE | | | | |
| FDN. | FOUNDATION | | | | |
| FIN. | FINISH(ED) | | | | |
| FL. | FLOOR | | | | |

## LOCATION MAP




## RESPONSIBILITY MATRIX

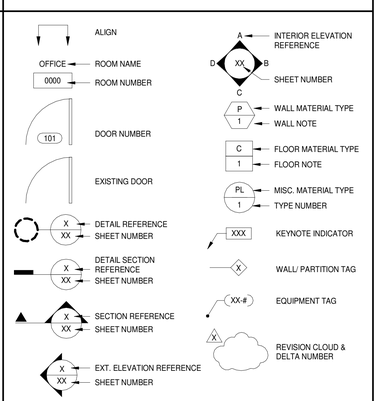
ABBREVIATIONS LEGEND:

REQ'D (REQUIRED): NEEDED FOR THE PROJECT | WM: WARE MALCOMB | TT: TENANT | LL: OWNER/LANDLORD | GC: GENERAL CONTRACTOR

| REQ'D Y | REQ'D N | ARCHITECTURE, ENGINEERING, DESIGN | CONTRACTED BY WM | GC | TT | LL | COMMENTS |
|---|---|---|---|---|---|---|---|
| | X | ARCHITECTURE - EXTERIOR | | | | | |
| X | | ARCHITECTURE - INTERIOR | | | X | | |
| X | | STRUCTURAL ENGINEERING | X | | | | |
| | | 3RD PARTY INSPECTION | | | | | |
| X | | MECHANICAL ENGINEERING | | X | | | |
| X | | PLUMBING ENGINEERING | | X | | | |
| X | | ELECTRICAL ENGINEERING | | X | | | |
| | X | CIVIL ENGINEERING | | | | | |
| | X | LANDSCAPE ARCHITECT AND DESIGN | | | | | |
| | X | LIGHTING DESIGNER | | | | | |
| | X | ENVIRONMENTAL GRAPHICS | | | | | |
| X | | FIRE SPRINKLER | | X | | | |
| X | | FIRE ALARM | | X | | | |
| | | INFORMATION TECHNOLOGY DESIGN | | | | | |
| | | STRUCTURED CABLING CONSULTANT | | | | | |
| X | | AUDIO / VISUAL CONSULTANT | | | X | | |
| X | | SECURITY DESIGN | | | X | | |
| X | | COMMISSIONING AGENT (MEP SYSTEM) | | | X | | |
| | X | ENVIRONMENTAL / ASBESTOS CONSULTANT | | | | | |
| | X | HAZARDOUS MATERIALS CONSULTANT | | | | | |
| | X | ACOUSTICAL ENGINEER / DESIGNER | | | | | |
| | X | LEED OR WELL DESIGN AND ADMINISTRATIONS | | | | | |
| | | | | | | | |
| | | | | | | | |

| REQ'D Y | REQ'D N | VENDORS / INSTALLERS | CONTR'D BY GC | TT | LL | COMMENTS / CONTACTS |
|---|---|---|---|---|---|---|
| | | FURNITURE | | X | | |
| | | OFFICE FRONTS (GLAZING SYSTEMS) | | X | | |
| | | I.T. SYSTEMS | | X | | |
| | | I.T. CABLING | | X | | |
| | | AUDIO / VISUAL EQUIPMENT | | X | | |
| | | SECURITY DESIGN / INSTALL | | X | | |
| | | INTERIOR SIGNAGE (NON-CODE) | | X | | |
| | | INTERIOR GRAPHICS | | X | | |
| | | SOUND MASKING | | X | | |
| | | HIGH-PILE STORAGE | | X | | |
| | | SPECIALTY EQUIPMENT / MOVING / INSTALL | | X | | |
| | | ARTWORK | | X | | |
| | | | | | | |
| | | | | | | |

## SYBMOLS




# U-HAUL TENANT IMPROVEMENT

## 4658 EVORA ROAD
## CONCORD, CALIFORNIA 94520

(For Tenant Improvement Permit Only)

RECEIVED on 07/17/2024 CDLP24-02007
By Contra Costa County
Department of Conservation and Development

## PROJECT DESCRIPTION & SCOPE

| | |
|---|---|
| **PROJECT DESCRIPTION:** | THE SCOPE OF THIS PROJECT IS A 1ST GENERATION INTERIOR OFFICE IMPROVEMENT WITHIN AN EXISTING COLD-SHELL WAREHOUSE SPACE. SCOPE INCLUDES NEW NON-RATED INTERIOR PARTITIONS, POWER AND SIGNAL, CEILINGS, LIGHTING, HVAC, FINISHES, RESTROOM ACCESSORIES AND PLUMBING FIXTURES. |
| **OCC. CLASSIFICATION:** | M - MERCANTILE |
| **SCOPE AREA(S):** | MERCANTILE (M) 2,742 S.F.<br>OFFICE (B) 374 S.F.<br>STORAGE (S-1) 2,593 S.F.<br>TOTAL 5,709 S.F. |
| **CHANGE IN USE:** | ☐YES ☒NO |

## SHEET INDEX

SHEET ISSUED ON DATE INDICATED, WITH MODIFICATIONS ●
SHEET ISSUED ON DATE INDICATED, NO MODIFICATIONS ○

| | | ISSUANCE 05/17/2024 | XX/XX/2024 | XX/XX/2024 | XX/XX/2024 |
|---|---|---|---|---|---|
| **ARCHITECTURAL** | | | | | |
| G010 | TITLE SHEET | ● | | | |
| I000 | GENERAL NOTES | ● | | | |
| I020 | ACCESSIBILITY DETAILS | ● | | | |
| I021 | ACCESSIBILITY DETAILS | ● | | | |
| I030 | CALGREEN NOTES | ● | | | |
| I031 | CALGREEN NOTES | ● | | | |
| I032 | CALGREEN NOTES | ● | | | |
| I100 | SITE PLAN (FOR REFERENCE ONLY) | ● | | | |
| I110 | OCCUPANCY AND EGRESS PLAN | ● | | | |
| I120 | OVERALL FLOOR PLAN | ● | | | |
| I140 | OVERALL REFLECTED CEILING PLAN | ● | | | |
| I190 | OVERALL ROOF PLAN | ● | | | |
| I410 | ENLARGED FLOOR PLAN | ● | | | |
| I411 | ENLARGED REFLECTED CEILING PLAN | ● | | | |
| I412 | ENLARGED FINISH PLAN | ● | | | |
| I420 | ENLARGED RESTROOM PLAN AND RESTROOM ELEVATIONS | ● | | | |
| I430 | ENLARGED EXTERIOR ELEVATION | ● | | | |
| I510 | DETAILS | ● | | | |
| I610 | DOOR SCHEDULE AND DETAILS | ● | | | |
| I620 | SCHEDULES | ● | | | |
| ARCHITECTURAL SHEET COUNT: 20 | | | | | |
| **STRUCTURAL** | | | | | |
| ST-0 | OVERALL FLOOR PLAN | ● | | | |
| ST-1 | ENLARGED FLOOR AND REFLECTED CEILING PLANS | ● | | | |
| SD-0 | GENERAL NOTES | ● | | | |
| SD-1 | DETAILS | ● | | | |
| SD-2 | DETAILS | ● | | | |
| STRUCTURAL SHEET COUNT: 5 | | | | | |
| **MECHANICAL** | | | | | |
| M.1 | HVAC FLOOR PLAN | ● | | | |
| M.2 | HVAC DETAIL SPEC. PLAN | ● | | | |
| T24.1 | HVAC TITLE 24. PLAN | ● | | | |
| T24.2 | HVAC TITLE 24. PLAN | ● | | | |
| MECHANICAL SHEET COUNT: 4 | | | | | |
| **PLUMBING** | | | | | |
| P-3 | ISOMETRICS | ● | | | |
| P-4 | DETAILS, NOTES, SCHEDULES | ● | | | |
| P-1 | OVERALL PLUMBING PLAN | ● | | | |
| P-2 | ENLARGED PLUMBING PLAN | ● | | | |
| PLUMBING SHEET COUNT: 4 | | | | | |
| **ELECTRICAL** | | | | | |
| E0.1 | ELECTRICAL COVER SHEET | ● | | | |
| E0.2 | ONE LINE DIAGRAM & SCHEDULES | ● | | | |
| E1.1 | POWER PLAN | ● | | | |
| E1.2 | POWER PLAN - ROOF | ● | | | |
| E2.1 | LIGHTING PLAN | ● | | | |
| E2.2 | PHOTOMETRIC PLAN | ● | | | |
| ET24.1 | T24 ENERGY COMPLIANCECERTIFICATES | ● | | | |
| ET24.2 | T24 ENERGY COMPLIANCECERTIFICATES | ● | | | |
| ELECTRICAL SHEET COUNT: 8 | | | | | |

## BUILDING & CODE INFORMATION

| | | |
|---|---|---|
| **BUILDING DEPARTMENT:** | COUNTY OF CONTRA COSTA | |
| **APPLICABLE BUILDING CODES:** | 2022 CALIFORNIA BUILDING CODE<br>2022 CALIFORNIA MECHANICAL CODE<br>2022 CALIFORNIA ELECTRICAL CODE<br>2022 CALIFORNIA PLUMBING CODE<br>2022 CALIFORNIA FIRE CODE (WITH LOCAL AMENDMENTS)<br>2022 STATE OF CALIFORNIA ENERGY CODE<br>2022 STATE OF CALIFORNIA GREEN BUILDING CODE<br>2022 STATE OF CALIFORNIA TITLE 24 ACCESSIBILITY STANDARDS | |
| **BUILDING TYPE:** | III-B | **CBC 602** |
| **NUMBER OF STORIES:** | 1 | |
| **YEAR BUILT:** | 2023 | |
| **OCCUPANCY CLASS:** | S-1 / M | **CBC CHAPTER 3** |
| **SEPARATIONS:** | ☒YES ☐NO | **CBC TABLE 508.4** |
| **FIRE SPRINKLERS:** | ☒YES ☐NO TYPE: ESFR | |
| **FIRE ALARM:** | ☒YES ☐NO | |
| **ACCESSOR'S PARCEL #:** | 099-160-026; 099-160-027 | |

## PROJECT DIRECTORY

### ARCHITECT

**WARE MALCOMB**
4683 CHABOT DR #300
PLEASANTON, CA 94588
P 925.244.9620
F 925.244.9621
PRIMARY CONTACT: ANOUSHA GHOORCHIAN
PH: (925) 474-8123
EMAIL: aghorchian@waremalcomb.com

### BUILDING OWNER

**U-HAUL**
8000 SAN LEANDRO STREET
OAKLAND, CA
PRIMARY CONTACT: JERRY OWEN
PH: (510) 717-0823
EMAIL: jerry_owen@uhaul.com

### ARCHITECT'S CONSULTANTS

**STRUCTURAL ENGINEER**
HSA & ASSOCIATES, INC.
1280 CIVIC DRIVE, SUITE 204
WALNUT CREEK, CA 94596
PRIMARY CONTACT: ALEX RICHARDSON
PH: (925) 517-6544
EMAIL: Alex@hsaassociates.com

### GENERAL CONTRACTOR

**ALSTON CONSTRUCTION**
400 CAPITOL MALL, SUITE 2060
SACRAMENT, CA 95814
PRIMARY CONTACT: ELI ANDRES
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EMAIL: eandres@alstonco.com

### DESIGN BUILD CONSULTANTS

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PRIMARY CONTACT: ROB JENSEN
PH: (916) 408-6600
EMAIL: rob@emci-hvac.com

**PLUMBING ENGINEER**
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GILROY, CA 95020
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EMAIL: kencayler@gmail.com

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11101 WHITE ROCK ROAD
RANCHO CORDOVA, CA 95670
PRIMARY CONTACT: ERIC EYERLY
PH: (916) 903-2477
EMAIL: ericeyerly@northstate-eci.com

**FIRE PROTECTION**
WEST COAST FIRE PROTECTION SYSTEMS CO., INC.
342 SACRAMENTO STREET
AUBURN, CA 95603
PRIMARY CONTACT: GLEN WINGATE
PH: (530) 212-3810
EMAIL: glen@westcoastfire.com

## DEFERRED SUBMITTALS

DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEERS OF RECORD WHO SHALL REVIEW AND PROVIDE NOTATION INDICATING DOCUMENTS HAVE BEEN REVIEWED AND FOUND TO BE IN GENERAL CONFORMANCE WITH THE BUILDING DESIGN. SUBMITTAL MATERIALS SHALL INCLUDE PLANS, DETAILS AND CALCULATIONS PREPARED AND SIGNED BY A STATE REGISTERED ENGINEER.
CONTRACTOR SHALL SUBMIT ARCHITECT AND ENGINEER REVIEWED SUBMITTAL MATERIALS TO THE BUILDING OFFICIAL FOR REVIEW AND PERMIT APPROVAL. DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED PRIOR TO OBTAINING THE BUILDING OFFICIAL'S APPROVAL OF THE SUBMITTAL.

1. AUTOMATIC FIRE SPRINKLER SYSTEM.
2. FIRE ALARM SYSTEM.

## CONTRACT DOCUMENT REVIEW

THE UNDERSIGNED ACKNOWLEDGE THAT THESE CONTRACT DOCUMENTS REPRESENT THE FINAL PHASE OF THE DESIGN DOCUMENT DEVELOPMENT PROCESS BY WARE MALCOMB AND ITS DESIGN CONSULTANTS AND ANY REQUESTED REVISIONS MAY CAUSE AN ADJUSTMENT IN THE ARCHITECTURAL CONTRACT SUM. PROPOSED ADJUSTMENTS TO THE CONTRACT SUM SHALL BE SUBMITTED AND ACCEPTED PRIOR TO THE START OF ADDITIONAL WORK.

NAME:_____ SIGNATURE:_____ DATE:_____

NAME:_____ SIGNATURE:_____ DATE:_____

NAME:_____ SIGNATURE:_____ DATE:_____

WARE MALCOMB
4683 Chabot Dr, Suite #300
Pleasanton, CA 94588
P 925.244.9620

ARCHITECTURE
PLANNING
INTERIORS
CIVIL ENGINEERING
LANDSCAPE
BUILDING MEASUREMENT

LICENSED ARCHITECT
JAMES ALLEN TAYLOR
No. C-34838
REGISTRATION DATE
10-31-2025
STATE OF CALIFORNIA

U-HAUL TENANT IMPROVEMENT
4658 EVORA ROAD
CONCORD, CALIFORNIA 94520

TITLE SHEET

| DATE | REMARKS |
|---|---|
| 05/17/2024 | PERMIT SUBMITTAL |

| | |
|---|---|
| PA/PM: | A. GHOORCHIAN |
| DRAWN BY.: | A.C. |
| JOB NO.: | SNR24-0001-00 |

SHEET
G010

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# EQUIPMENT NOTES

1. CONTRACTOR SHALL CONFIRM ALL ELECTRICAL, PLUMBING, GAS, BLOCKING, ETC. REQUIREMENTS WITH EQUIPMENT SUPPLIERS AND VENDORS.
2. THE ICE MACHINE SHALL BE SET BY KITCHEN EQUIPMENT SUPPLIER. REMOTE CONDENSER SHALL BE SET BY THE G.C./REFRIGERATION PIPING, START UP AND CHECK TO BE DONE BY THE G.C.
3. COUNTERTOP EQUIPMENT SHALL BE ON 4" HIGH LEGS AND BE SEALED TO COUNTER OR BE PORTABLE.
4. FLOOR MOUNTED EQUIPMENT SHALL BE ON 6" HIGH LEGS, ON CASTERS OR SEALED TO FLOOR.
5. EQUIPMENT NOT ON CASTERS SHALL BE SEALED TO THE WALL AND/OR TO ADJOINING EQUIPMENT OR PROVIDE SPACE TO FACILITATE CLEANING.
6. EVERY ITEM SHALL BE NATIONAL SANITATION FOUNDATION (NSF) APPROVED OR APPROVED EQUAL. ALL FOOD PREP TABLES SHALL BE S.S. PLASTIC LAMINATE SURFACES SHALL NOT BE USED FOR DIRECT FOOD CONTACT.
7. ALL FOOD SURFACE EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS AND PROCEDURES AS SET FORTH BY NSF. THESE PROCEDURES ARE ILLUSTRATED IN THE INSTALLATION MANUAL FOR FOOD SERVICE EQUIPMENT DEVELOPED BY NSF.
8. ALL SPLASH BACKS SHALL BE 3" AWAY FROM ADJACENT WALLS TO AVOID ANY DARK ENCLOSED AREAS OR SPLASH BACKS SHALL BE SEALED TO THE WALL WITH AN APPROVED SILICONE OR SIM. CAULKING MATERIAL.
9. ALL SHELVING FOR SANITARY STORAGE RACKS SHALL BE LOCATED A MINIMUM OF 15" ABOVE THE FLOOR AND SHALL BE 1/2" TO 2" FROM ADJACENT WALLS TO AIDE IN CLEANING.
10. ALL KITCHEN EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURERS SPECIFICATIONS.
11. G.C. SHALL PROVIDE ALL CUT-OUTS AND HOLES IN COUNTERTOPS FOR EQUIPMENT, ELECTRICAL CORDS, PLUMBING, ETC.CONTRACTORS SHALL COORDINATE WITH OWNER AND KITCHEN EQUIPMENT MANUFACTURER'S WRITTEN INSTRUCTION.
12. THE KITCHEN EQUIPMENT SUPPLIER SHALL BE RESPONSIBLE FOR DELIVERY, UNCARTING, AND SETTING IN PLACE OF THE KITCHEN EQUIPMENT. THE G.C. SHALL MAKE FINAL CONNECTIONS OF THE KITCHEN EQUIPMENT PLUMBING AND ELECTRICAL AS REQUIRED.
13. G.C. AND KITCHEN EQUIPMENT SUPPLIER SHALL COORDINATE PLANS, SCHEDULES AND ELEVATIONS.
14. INSTALL 3"X3"X16GA. ALUMINUM TRIM WITH SILICON SEALANT TO SEAL GAP BETWEEN FREEZER/COOLER WALL PANELS AND BUILDING WALL. SCREW TO PANELS.
15. CABINETS AT MANAGERS OFFICE (EXCEPT METAL FILING CABINET) SHALL BE WHITE FINISH EUROPEAN BOX STYLE EQUAL TO "BIANCO" SERIES STOCK UNASSEMBLED MANUF. BY MILLS PRIDE AND DISTRIBUTED BY HOME DEPOT. SUBMIT COMPLETE SHOP DRAWINGS IF OTHER MANUFACTURER OR CUSTOM BUILT CABINETS ARE INSTALLED.
16. METAL FILE CABINETS AT MANAGERS OFFICE AND TELEPHONE ROOM SHALL BE "HON 500 SERIES" WITH LOCKS, 2 DRAWERS,SIZE 26 1/2" DEEP X 15" WIDE X 26" HIGH, NO. HN512Q LIGHT GRAY WITH HN 26 LOCKS. CENTER DRAWER KIT TO BE "HON" NO. HON D8Q CABINETS AND DRAWER WITH LOCK.
17. COUNTERTOPS AT MANAGERS OFFICE SHALL BE CUSTOM MADE ON 3/4" 45# DENSITY PARTICLE BOARD REINFORCED W/ 1X4'S AT ALL EDGES. PROVIDE 4" SPLASH AND MATTE WHITE PLASTIC LAMINATE FINISH FORMICA MISSION WHITE 933-58 AND SUPPORT FOR THE COUNTERTOP.
18. SHELVES ARE TO BE PAINTED WOOD (PT-4) OR LAMINATED (ALL EDGES). PAINT STANDARDS PT-4.

# FIRE AUTHORITY NOTES

1. FINAL INSPECTION BY FIRE DEPARTMENT IS REQUIRED - SCHEDULE 72 HOURS IN ADVANCE.
2. THE PROJECT ADDRESS SHALL BE PROVIDED FOR ALL NEW AND EXISTING BUILDINGS IN A POSITION AS TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY PER LOCAL FIRE DEPARTMENT STANDARDS.
3. AN UNOBSTRUCTED ALL-WEATHER FIRE APPARATUS ACCESS ROAD SHALL BE IN PLACE PRIOR TO DELIVERY OF COMBUSTIBLE BUILDING MATERIALS TO THE SITE.
4. FIRE PREVENTION WATER SERVICE SHALL BE IN SERVICE PRIOR TO DELIVERY OF COMBUSTIBLE BUILDING MATERIALS TO THE SITE.
5. ACCESS GATES SHALL BE APPROVED PRIOR TO INSTALLATION AND SHALL BE IN COMPLIANCE WITH LOCAL FIRE AUTHORITY.
6. FIRE SPRINKLER SYSTEM(S) SHALL MEET STATE & LOCAL FIRE CODES AND BE PROVIDED TO PROTECT ENTIRE BUILDING INCLUDING PROJECTIONS OVER 4'-0".
7. FIRE SPRINKLER SYSTEM(S) AND ALL CONTROL VALVES, INCLUDING EXTERIOR SHALL BE SUPERVISED BY A U.L. LISTED CENTRAL ALARM STATION OR PER STATE & LOCAL FIRE CODES.
8. ALL VALVES CONTROLLING THE WATER SUPPLY FOR AUTOMATIC SPRINKLER SYSTEMS AND WATER-FLOW SWITCHES ON ALL SPRINKLER SYSTEMS SHALL BE ELECTRICALLY MONITORED WHERE THE NUMBER OF SPRINKLERS IS (100) OR MORE.
9. ELECTRICAL SUBCONTRACTORS TO INSTALL WIRING FOR FIRE SPRINKLER, ALARM BELL AND TELEPHONE WARNING AS REQUIRED BY FIRE DEPARTMENT.
10. INSTALLATION OF FIRE ALARM SYSTEMS SHALL BE IN ACCORDANCE WITH STATE & LOCAL FIRE CODES.
11. COMPLETE PLANS AND SPECIFICATIONS FOR ALL FIXED FIRE PROTECTION EQUIPMENT INCLUDING AUTOMATIC SPRINKLERS AND OTHER FIRE-PROTECTION SYSTEMS, SHALL BE SUBMITTED BY INSTALLING CONTRACTOR. SUCH PLANS SHALL BE APPROVED BY LOCAL FIRE AUTHORITY PRIOR TO INSTALLATION.
12. LOCATIONS AND CLASSIFICATIONS OF FIRE EXTINGUISHERS SHALL BE IN ACCORDANCE WITH STATE & LOCAL FIRE CODES AND PLACEMENT IS SUBJECT TO THE APPROVAL OF THE FIRE INSPECTOR. VERIFY QUANTITY & EXACT LOCATION FROM FIRE DEPARTMENT PRIOR TO ORDERING.
13. AT LEAST ONE (1) FIRE EXTINGUISHER WITH A MINIMUM RATING OF: 2-A-10B:C (FOR OFFICE), OR 10-A-80B:C (FOR WAREHOUSE), SHALL BE PROVIDED WITHIN 75'-0" MAXIMUM TRAVEL DISTANCE FOR EACH 3,000 SQUARE FEET OR PORTION THEREOF ON EACH FLOOR.
14. STORAGE, DISPENSING OR USE OF ANY FLAMMABLE AND COMBUSTIBLE LIQUIDS, FLAMMABLE AND COMPRESSED GASES, AND OTHER HAZARDOUS MATERIALS SHALL COMPLY WITH STATE & LOCAL FIRE CODES. THE STORAGE AND USE OF HAZARDOUS MATERIALS SHALL BE APPROVED BY THE FIRE AUTHORITY PRIOR TO ANY MATERIALS BEING STORED OR USED ON SITE. A SEPARATE PLAN SUBMITTAL IS REQUIRED PRIOR TO THE STORAGE AND USE OF HAZARDOUS MATERIALS.
15. BUILDING(S) NOT APPROVED FOR HIGH-PILED STOCK (MATERIALS IN CLOSELY PACKED PILES OR ON PALLETS, OR IN RACKS WHERE THE TOP OF STORAGE EXCEEDS 12'-0" IN HEIGHT, AND 6'-0" FOR GROUP "A" PLASTICS AND CERTAIN OTHER HIGH-HAZARD COMMODITIES). HIGH-PILED STOCK SHALL BE APPROVED BY THE FIRE AUTHORITY PRIOR TO MATERIALS BEING STORED ON SITE. A SEPARATE PLAN SUBMITTAL IS REQUIRED FOR HIGH-PILED STORAGE IN ACCORDANCE WITH STATE & LOCAL FIRE CODES.
16. A LETTER OF INTENDED USE MAY BE REQUIRED BY THE FIRE INSPECTOR.
17. ALL REQUIRED FIRE DOORS SHALL BEAR A LABEL FROM A RECOGNIZED AGENCY SHOWING THE SPECIFIC RATING.
18. EXIT SIGNS AND ILLUMINATION SHALL CONFORM TO ALL APPLICABLE BUILDING AND FIRE CODES.
19. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
20. PROVIDE OR MODIFY AS NEEDED SPRINKLER ALARM AND SMOKE DETECTION SYSTEM PER APPLICABLE CODES INCLUDING IF NECESSARY FOR HORNS, STROBE LIGHTS, CONTROL PANEL CONNECTIONS, SMOKE DETECTORS, AUDIO VISUAL ALARMS. SUBMIT SHOP DRAWINGS TO THE FIRE MARSHAL FOR APPROVAL.

# FINISH NOTES

1. NO FINISH SUBSTITUTIONS MAY BE MADE UNLESS APPROVED BY ARCHITECT.
2. CONTRACTOR MUST NOTIFY THE ARCHITECT OF ANY DISCREPANCY IN PLANS. FINISH ITEMS CLEARLY SHOWN IN PLANS, BUT OMITTED FROM SCHEDULES OR LEGENDS MUST STILL BE PROVIDED AND INSTALLED BY CONTRACTOR. CONTRACTOR TO VERIFY OMITTED FINISHED WITH ARCHITECT PRIOR TO ORDERING PRODUCTS.
3. INSTALL MATERIALS ACCORDING TO MANUFACTURER'S SUGGESTED INSTALLATION AND PREPARATION/MAINTENANCE SPECIFICATIONS OR BETTER, UNLESS OTHERWISE APPROVED OR NOTED.
4. APPLICATION OF CONTROLLED INTERIOR FINISHES SHALL BE IN CONFORMANCE WITH STATE & LOCAL CODES.
5. DECORATIVE MATERIALS SHALL BE MAINTAINED IN FLAME-RETARDANT CONDITION.
6. SUBMIT THE FOLLOWING SAMPLES FOR ARCHITECT'S APPROVAL:
   A. THREE (3) 12" X 12" SAMPLES FOR ALL PAINT, WALL COVERING FINISHES AND COLORS APPLIED TO A SUBSTRATE WHICH IS REPRESENTATIVE OF THE SURFACE TO BE FINISHED. SUBMIT PAINT SAMPLES FROM THE PAINT LOT OR LOTS INTENDED FOR APPLICATION.
   B. ONE (1) 24" X 24" MOCK-UP WITH SAMPLE SEAM (CENTERED) OF ALL WALL COVERING FINISHES AND COLOR.
   C. THREE (3) 12" X 12" SAMPLES OF ALL FLOOR COVERING.
   D. SUBMIT ACTUAL CUTTINGS OF EACH PRODUCT FOR COLOR/QUALITY CONTROL.
7. WHERE MATERIALS ARE NOT RETURNABLE, SUBMIT SAMPLES TO ARCHITECT AND SECURE APPROVAL BEFORE PLACING FULL ORDERS.
8. SUBMIT SEAMING PLAN FOR CARPET TO ARCHITECT FOR APPROVAL PRIOR TO CARPET ORDER.
9. NOTIFY ARCHITECT IMMEDIATELY OF ITEMS WITH LONG LEAD TIMES.
10. ALL PAINT FINISH OF METAL PARTS OF DOORS, HANDRAILS, PERIMETER ENCLOSURES, ETC. , SHALL BE SEMI-GLOSS, UNLESS NOTED OTHERWISE.
11. WHERE PAINT COLORS CHANGE, CORNERS ARE TO BE CUT-IN FREE OF OVERLAPPING.
12. PRIOR TO THE INSTALLATION OF WALL COVERINGS, SURFACES SHALL BE PROPERLY PREPARED WITH SEALER PER MANUFACTURER'S RECOMMENDATIONS.
13. CONTRACTOR TO VERIFY CONDITION AND LEVEL OF FLOOR SO AS TO RECEIVE NEW FINISHES WITHOUT BOWING AT FLOOR OR WALL BASE. CONTRACTOR IS RESPONSIBLE FOR ALL FLOOR PREPARATION.
14. ALL CARPETING SHALL BE INSTALLED WITH GLUE DOWN METHOD, UNLESS NOTED OTHERWISE.
15. ALL RESILIENT FLOORING TO BE INSTALLED WITH FULL TILE FROM THRESHOLD STRIP AND FULL TILE FROM PARTITION ADJACENT TO DOOR SWING, U.N.O.
16. PROVIDE AND INSTALL SPECIFIED BASE FOR ALL AREAS TO RECEIVE FLOORING.
17. CONTRACTOR SHALL PROVIDE PRE-FORMED RUBBER BASE CORNERS. DO NOT CUT OR BEND STRAIGHT BASE TO MAKE CORNERS.
18. MILLWORK LOWER CABINETS ARE NOT TO RECEIVE WALL BASE UNLESS INDICATED ON MILLWORK DETAILS.
19. FLOOR FINISHES TO CONTINUE UNDERNEATH "OPEN FLOOR" AREAS OF MILLWORK, INCLUDING SINK AREA AND AT ALL UNDER-COUNTER EQUIPMENT AREAS WHICH ARE OPEN TO THE FLOOR.
20. FLOORS SHALL BE SLOPED TO FLOOR DRAINS. COORDINATE WITH PLUMBING AND STRUCTURAL DRAWINGS. IN RATED FLOOR CONDITIONS, CONFIRM REMAINING FLOOR THICKNESS STILL CONFORMS TO MINIMUM RATING REQUIREMENT.
21. CONTRACTOR TO RUN CALCIUM CHLORIDE TEST ON ALL EXISTING OR NEW CONCRETE SLABS PRIOR TO INSTALLING ANY FLOORING AND COMPARE RESULTS WITH FLOORING MANUFACTURE'S RECOMMENDED MAXIMUM CONTENT FOR WARRANTIES AND ADHESIVE PRODUCTS.
22. PRIOR TO NEW FLOORING INSTALLATION REMOVE EXISTING FLOOR FINISHES. PATCH AND REPAIR SUB-FLOOR AS REQUIRED. PREPARE FLOORS AND TRANSITIONS AS REQUIRED FOR SMOOTH AND LEVEL FINISH PER APPLICABLE BUILDING CODES.
23. ALL FLOORING TRANSITIONS AMONG DIFFERING FLOORING MATERIAL ARE TO BE A FLUSH TRANSITION, U.O.N.
24. FEATHER SUB-FLOOR UP FOR TILE FLOORING TO CARPET CONDITIONS AND RESILIENT FLOORING TO CARPET CONDITIONS FOR FLUSH INSTALLATION.
25. INSTALL METAL TRANSITION STRIPS WHERE TILE MEETS ALL OTHER FLOORING TYPES. PROVIDE LOW PROFILE TRANSITION STRIP WHERE ALL OTHER DIFFERENT FLOOR TYPES MEET, VERIFY COLOR WITH ARCHITECT.
26. FLOOR COVERING INSTALLER TO FOLLOW MANUFACTURER'S SPECIFIED CARPET INSTALLATION INSTRUCTIONS. USING ADHESIVES AND INSTALLATION METHOD TO MAINTAIN PRODUCT'S WARRANTY. CONTACT CARPET SALES REPRESENTATIVE WITH QUESTIONS PRIOR TO PROCEEDING.
27. FLOOR COVERING INSTALLER TO FOLLOW MANUFACTURER'S SPECIFIED CONTOURED RUBBER BASE INSTALLATION INSTRUCTIONS USING ADHESIVES AND INSTALLATION METHODS REQUIRED TO MAINTAIN PRODUCT'S WARRANTY.
28. FLOOR COVERING INSTALLER REQUIRED TO PROVIDE MINIMAL SEAMS/JOINTS AT ALL LOCATIONS FOR FLOOR AND WALL BASE MATERIAL INSTALLATION. PROVIDE LOW VOC, BUT HEAVY DUTY ADHESIVES TO ENDURE HEAVY FOOT TRAFFIC, CARTS AND TO MAINTAIN PRODUCT'S WARRANTY.
29. PRIOR TO PAINTING, PARTITIONS MUST BE PATCHED AND REPAIRED, CLEAN AND DRY AS TO LEAVE NO EVIDENCE OF PATCHING OR REPAIRS. ALL SCREW AND NAIL HEADS MUST BE SET AND SPACKLED. ALL JOINTS MUST BE TAPED AND COVERED WITH JOINT COMPOUND. JOINTS THAT ARE FILLED TO BE SANDED SMOOTH AND DUST REMOVED PRIOR TO RECEIVING NEW PAINT FINISH APPLICATION.
30. PRIOR TO PAINTING OVER WALL COVERING, SECURELY GLUE DOWN ANY LIFTING OR BUCKLING AND HIDE ALL SEAMING OR BUMPS.
31. PARTITIONS TO HAVE AT LEAST ONE COAT OF COLORED PRIMER AND TWO COATS OF SPECIFIED PAINT FINISH TYPE. PAINT TO BE A LOW VOC UNLESS U.O.N. HIGH TRAFFIC/WEAR ABILITY WITH GOOD SCRUB AND CLEANING ABILITY. VERIFY ALL WITH TENANT OR OWNER PRIOR TO PURCHASING PAINT.
32. PAINT ANY UNFINISHED SPEAKER COVERS AND HVAC GRILLS IN GYPSUM BOARD PARTITIONS AND CEILINGS TO MATCH ADJACENT PAINT COLOR AS SPECIFIED.
33. ALL EXPOSED MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DUCTWORK AND PIPING IS TO BE PAINTED TO MATCH THE CEILING.
34. ALL NEWLY INSTALLED, PATCHED WORK AND ALL AFFECTED AREAS SHALL BE PAINTED. ALL PAINTING WORK SHALL BE PERFORMED TO COVER THE ENTIRE HORIZONTAL OR VERTICAL SURFACE TO THE CLOSEST CORNER IN ALL FOUR DIRECTIONS.
35. PRIOR TO INSTALLING WALL TILES AND WALL BASE TILE, PARTITIONS MUST BE PATCHED AND REPAIRED, CLEAN AND DRY AND BE PROPERLY MEMBERED AND ALIGNED, SO, AS TO LEAVE NO EVIDENCE OF PATCHING OR REPAIRS. ALL SCREW AND NAIL HEADS MUST BE SET AND SPACKLED. ALL JOINTS MUST BE TAPED AND COVERED WITH JOINT COMPOUND. JOINTS THAT ARE FILLED ARE TO BE SANDED SMOOTH AND BUMP FREE WITH DUST REMOVED PRIOR TO RECEIVING MORTAR BED/BOND COAT AND WALL TILES.
36. ALL WALL TILES ARE TO HAVE A MORTAR BED/BOND COAT THICKNESS TO ACCOMMODATE THE VARYING THICKNESSES OF ALL MATERIAL TYPES OF TILE SPECIFIED FOR PARTITION INSTALLATION WITH A FLUSH FRONT FACE.
37. ALL TRANSLUCENT GLASS TILE SPECIFIED ARE TO RECEIVE UNIFORM COVERAGE BY BACK BUTTERING TILES AND TROWEL RIDGES FLATTENED PRIOR TO SETTING.
38. FLOORS OF TOILETS, BATHING AND SHOWER ROOMS SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE. THE INTERSECTION OF SUCH FLOORS WITH PARTITIONS SHALL HAVE A SMOOTH, HARD, NONABSORBENT VERTICAL BASE AS SPECIFIED IN FINISH PLANS OR RESTROOM ELEVATIONS. BASE SHALL EXTEND UPWARD ONTO THE PARTITIONS NOT LESS THAN 4 INCHES.
39. WALLS AND PARTITIONS WITHIN 2 FEET OF SERVICE SINKS, URINALS AND WATER CLOSETS SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE TO A HEIGHT OF NOT LESS THAN 4 FEET ABOVE THE FLOOR.

# CEILING NOTES

1. SEE ELECTRICAL ENGINEERING DRAWINGS FOR SPECIFICATIONS OF LIGHT FIXTURES, SWITCHES, EXIT SIGNS, ETC.
2. CONTRACTOR TO VERIFY COMPATIBILITY OF LIGHT FIXTURES WITH THE CEILING SYSTEM.
3. ALL REPLACEMENT FLUORESCENT LAMPS TO MATCH BUILDING STANDARD OR ADJACENT EXISTING CONSTRUCTION - SAME COLOR AND MANUFACTURER.
4. FIELD VERIFY EXISTING CEILING GRID LOCATION AND NOTIFY ARCHITECT OF ANY DISCREPANCIES ON PLANS.
5. CONTRACTOR TO PROVIDE APPROPRIATE SIZED CUTOUTS ABOVE CEILINGS WHERE NON-RATED PARTITIONS EXTEND TO SLAB ABOVE AS NECESSARY FOR RETURN AIR CIRCULATION.
6. WHERE DISCREPANCIES IN LOCATION OF LIGHT FIXTURES, AIR DIFFUSERS, GRILLES, ETC. OCCUR ON THE ELECTRICAL PLANS, THE ARCHITECTURAL PLANS SHALL GOVERN. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR CLARIFICATIONS.
7. FIELD VERIFY ALL CLEARANCES OF DUCTS, PIPES, SPRINKLERS, ETC. AND NOTIFY ARCHITECT OF ANY CONFLICTS PRIOR TO INSTALLATION OF LIGHTS ETC.
8. PLACEMENT OF LIGHT FIXTURES IN AREAS WHERE MAIN DUCTS MAY CAUSE INTERFERENCE MUST BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
9. CONDUIT ABOVE CEILING MUST BE A MINIMUM OF 12" ABOVE THE CEILING GRID.
10. NO COMBUSTIBLE MATERIALS SHALL BE USED IN THE PLENUM SPACE, INCLUDING ALUMINUM FLEX, ALUMINUM CONDUIT AND POT METAL CONNECTORS.
11. ALL JUNCTION BOXES AND MECHANICAL EQUIPMENT REQUIRING ACCESS FOR SERVICE SHALL BE LOCATED OVER ACOUSTICAL CEILINGS. NO ACCESS HATCHES SHALL BE INSTALLED IN GYPSUM BOARD CEILINGS WITHOUT PRIOR APPROVAL BY ARCHITECT. (NO EXCEPTION).
12. ALL SPRINKLER HEADS AT HARD-LID CEILINGS ARE TO BE FULLY RECESSED AND CONCEALED. HEADS ARE TO BE CENTERED BETWEEN LIGHTS IN A UNIFORM ARCHITECTURAL PATTERN, G.C TO PROVIDE A SUBMITTAL WITH SPRINKLER HEAD LOCATIONS FOR ARCHITECT'S APPROVAL PRIOR TO INSTALLATION.
13. ALL SPRINKLER HEADS PLACED IN WHITE CEILING TILE OR WHITE GYPSUM BOARD TO BE WHITE. ALL SPRINKLER HEADS IN COLORED CEILINGS ARE TO BE CUSTOM COLOR TO MATCH ADJACENT CEILING.
14. LOCATE RECESSED DOWN LIGHTS, WALL WASHERS, SMOKE DETECTORS, EXIT SIGNS, SPEAKERS, FIRE SPRINKLERS, ETC. IN CENTER OF 24"x24" CEILING TILES OR IN CENTER OF 24"x24" PORTION OF 24"x48" CEILING TILES. UNLESS OTHERWISE NOTED.
15. PROVIDE SWITCHES AND LIGHT SENSORS FOR OPEN AREAS AND PRIVATE OFFICES. ACTUAL LOCATION OF ALL SWITCHES TO BE DETERMINED BY ARCHITECT.
16. PROVIDE FIRE DAMPERS AT ALL SUPPLY AND RETURN AIR OUTLETS, INLETS OR DUCTS PENETRATING FIRE RATED ASSEMBLIES, ENCLOSURES, PARTITIONS, FLOORS OR SURFACES, AS REQUIRED BY LOCAL CODES AND FIRE DEPARTMENT. REFER TO MECHANICAL ENGINEERING DOCUMENTS FOR SPECIFIC REQUIREMENTS.
17. CONTRACTOR SHALL PROVIDE EMERGENCY LIGHTING, STROBE LIGHTS, AUDIO-VISUAL ALARMS AND OCCUPANCY SENSORS TO MEET ALL APPLICABLE CODES.
18. CONTRACTOR SHALL PROVIDE LAMPS WITH TYPE IC RATED HOUSING WHERE FIXTURES COME IN DIRECT CONTACT WITH INSULATION.
19. ALL EXIT SIGN LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECT.
20. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED AT ALL TIMES AND SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM (BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR) THAT WILL AUTOMATICALLY ILLUMINATE THE EXIT SIGNS FOR A DURATION OF NOT LESS THAN 90 MINUTES.

# MILLWORK NOTES

1. CONTRACTOR MUST NOTIFY ARCHITECT OF ANY DISCREPANCY IN PLANS. FINISH ITEMS CLEARLY SHOWN IN PLANS, BUT OMITTED FROM SCHEDULES OR LEGENDS MUST STILL BE PROVIDED AND INSTALLED BY CONTRACTOR. CONTRACTOR TO VERIFY OMITTED FINISHES WITH ARCHITECT PRIOR TO ORDERING PRODUCTS.
2. SHOP DRAWINGS MUST BE PROVIDED FOR APPROVAL PRIOR TO FABRICATION ANY SUBSTITUTIONS MUST BE APPROVED BY THE ARCHITECT PRIOR TO FABRICATION.
3. MILLWORKER TO COORDINATE & VERIFY WITH CONTRACTOR FINAL LOCATION FOR CANTILEVERED COUNTERS FOR IN-WALL SUPPORT BRACKETS, PRIOR TO GYPSUM BOARD FINISHING OF PARTITIONS. ALL FINAL INSTALLATION HEIGHTS FOR IN-WALL SUPPORT BRACKETS MUST MEET ALL APPLICABLE ACCESSIBILITY CODES AND STANDARDS WITH COUNTERTOP MATERIAL THICKNESS INCLUDED.
4. MATERIAL COLORS NOT LISTED SHALL BE REQUESTED FROM THE ARCHITECT ON SHOP DRAWING SUBMITTALS OR VIA RFIs.
5. ALL UPPERS TO BE LAMINATED TO MATCH BASE CABINETS. BOTH UPPERS & LOWER CABINETS IN WET AREAS TO HAVE MATCHING PVC EDGE, ALL OTHERS TO HAVE PLASTIC LAMINATE EDGE BANDING U.O.N.
6. ALL CABINETS AND DOORS SHALL BE CONSTRUCTED FROM 3/4" THICK MATERIAL, U.O.N. ON DETAILS.
7. BASE CABINETS ARE NOT TO RECEIVE WALL BASE UNLESS INDICATED ON FINISH PLANS OR ELEVATIONS.
8. ALL INTERIORS OF CLOSED CABINETS TO BE WHITE MELAMINE/POLYESTER OR APPROVED EQUAL, UNLESS OTHERWISE SPECIFIED.
9. ALL OPEN CABINETS OR SHELVES TO HAVE PLASTIC LAMINATE TO MATCH EXTERIORS.
10. NO 3/4" THICK SHELF SHALL SPAN LONGER THAN 32" WITHOUT SUPPORT.
11. ALL SHELVING TO BE ADJUSTABLE UNLESS OTHERWISE SPECIFIED.
12. ALL FILE PEDESTALS ARE TO BE CONFIGURED FOR "FRONT TO BACK" FILING AND BE ABLE TO ACCEPT METAL HANGERS TO ACCEPT PENDAFLEX TYPE FILE FOLDERS, UNLESS NOTED AS LATERAL.
13. ALL COUNTER TOPS TO BE 24" DEEP, UNLESS OTHERWISE SPECIFIED. WHERE NO BACKSPLASH IS SPECIFIED, COUNTER TOPS TO BE SCRIBED TIGHTLY TO BACK & SIDE WALLS.
14. ALL BACKSPLASHES TO BE SCRIBED TO PARTITIONS, AND MUST BE FLUSH TO EDGE OF BASE, UNLESS OTHERWISE SPECIFIED. ALL COUNTER TRANSITION SEAMS MUST BE CAULKED SEALED, VERIFY EITHER MATCHING COLOR CAULK OR CLEAR SILICONE.
15. PROVIDE SIDE SPLASHES AT LOCATIONS ADJACENT TO PARTITIONS OR WINDOWS, ESPECIALLY FOR SINKS U.O.N.
16. FACES OF PIGEONHOLES TO MATCH WORK SURFACE LAMINATE. COLOR OF EDGE BANDING ON ALL DOORS TO MATCH FACE MATERIAL.
17. IF PROVIDED, SEE SPECIFICATIONS/PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
18. COUNTERTOPS SHALL HAVE A NOSING OF COUNTERTOP MATERIAL AT LEAST 3" DEEP, WHEREBY THE COUNTER MATERIAL EXTENDS INTO THE INSIDE OF THE CABINET, I.E. OVER THE DOOR (WHEN PRESENT).
19. END PANELS AND FRONT EDGES OF EDGE PANELS WHICH ARE PROUD OF THE INTERIOR CABINET SHALL BE FACED TO MATCH DOOR FRONTS.
20. ALL HINGED DOORS TO HAVE CLEAR SILENCERS TOP AND BOTTOM ON DOOR (NOT CABINET).
21. ALL DRAWERS GLIDES SHALL HAVE SILENCERS BUILT INTO THE GLIDE AND NOT INSTALLED ON THE DRAWER OR DRAWER FRONT.
22. ALL DRAWER GLIDES SHALL BE FULL EXTENSION.
23. PROVIDE FULL OVERLAY HINGES THAT OPEN ±105°. EXCEPT WHERE CABINETS ARE ADJACENT TO THE PARTITIONS. PROVIDE HINGES WHICH LIMIT THE DOOR SWING TO KEEP THE DOOR PULL FROM DAMAGING THE PARTITION.

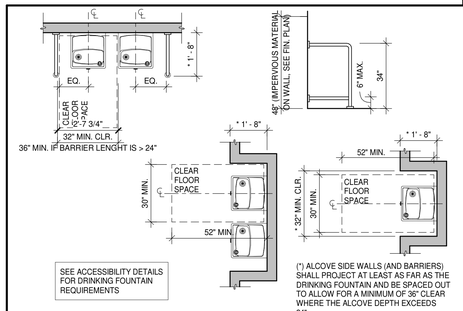
# FLOOR PLAN NOTES

1. CONTRACTOR AND ARCHITECT TO REVIEW & APPROVE CHALK LINES OF PARTITION LAYOUT PRIOR TO COMMENCEMENT OF PARTITION CONSTRUCTION.
2. CONTRACTOR TO VERIFY DIMENSIONS FOR ALL PLUMBING PARTITIONS.
3. EXTEND ALL STUDS AND PARTITION MATERIALS TO CONSTRUCTION ABOVE, U.O.N.
4. ALL CONDUIT PIPING TO BE CONCEALED WITHIN THE PARTITION CONSTRUCTION.
5. DOOR OPENINGS IN PARTITIONS NOT DIMENSIONED ARE TO BE LOCATED WITHIN 4" OF ADJACENT PERPENDICULAR PARTITION.
6. CONTRACTOR SHALL USE 6" METAL STUDS MINIMUM AT ALL PLUMBING PARTITIONS. CONTRACTOR TO VERIFY ACTUAL DEPTH REQUIRED, ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT.
7. USE WATER RESISTANT GYPSUM BOARD AT ALL AREAS SUBJECT TO MOISTURE OR WHERE TILE IS USED.
8. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
9. ALL HOT WATER LINES SHALL BE PROPERLY INSULATED. SEE PLUMBING DRAWINGS.
10. ALL PLUMBING CLEAN-OUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. CONTRACTOR SHALL COORDINATE ALL CLEAN-OUT LOCATIONS WITH EQUIPMENT, AND CABINETS. SUBMIT A PLAN OF ALL PROPOSED LOCATIONS TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.
11. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ARCHITECT AND TENANT APPROVAL PRIOR TO MANUFACTURE OF ANY CABINET WORK, MILLWORK AND ANY OTHER SPECIAL ITEMS REQUIRING CUSTOM SHOP PREFABRICATION WORK.
12. PROVIDE AND INSTALL ALL NECESSARY PARTITION BACKING, STIFFENERS, BRACING, BACK-UP PLATES AND/ OR SUPPORTING BRACKETS AS REQUIRED FOR THE INSTALLATION OF WALL-MOUNTED OR SUSPENDED EQUIPMENT OR BUILT-IN ITEMS. VERIFY REQUIREMENTS WITH MANUFACTURERS PRIOR TO INSTALLATION. SUPPLY CATALOG CUT SHEETS FOR ARCHITECT'S APPROVAL.
13. PROVIDE AND INSTALL ALL NECESSARY ELECTRICAL CONNECTIONS AND PLUMBING SUPPLY, FITTINGS & CONNECTORS TO COMPLETE INSTALLATION OF APPLIANCES & EQUIPMENT INDICATED ON PLAN. VERIFY REQUIREMENTS WITH MANUFACTURERS PRIOR TO INSTALLATION. SUPPLY CATALOG CUT SHEETS FOR ARCHITECT'S APPROVAL.
14. EXACT LOCATION OF FIRE EXTINGUISHER CABINETS TO BE CONFIRMED WITH ARCHITECT BEFORE INSTALLATION. PROVIDE ADDITIONAL FIRE EXTINGUISHERS & CABINETS AS REQUIRED BY THE FIRE DEPARTMENT FIELD INSPECTORS.
15. UNLESS OTHERWISE NOTED, ALL GYPSUM BOARD SURFACES, PARTITIONS, AND CEILINGS SHALL BE TAPED, SANDED SMOOTH TO A "LEVEL 4" FINISH, SO AS TO RECEIVE PAINT OR WALL COVERING MATERIAL.
16. PROVIDE SOUND INSULATION AT PERIMETER PARTITIONS OF RESTROOMS, LOBBY, STAIRS, AND ACROSS CEILING OF RESTROOMS TO CREATE AN ACOUSTIC ENVELOPE, U.O.N.
17. PATCH AND FILL OPENINGS AT EXISTING GYPSUM BOARD PARTITIONS AND SOFFITS FOLLOWING REMOVAL OF PARTITIONS. PROVIDE ADDITIONAL FIRE EXTINGUISHERS & CABINETS AS REQUIRED BY THE FIRE DEPARTMENT FIELD INSPECTORS.
18. THE MAXIMUM CONTROL JOINT SPACING FOR PARTITIONS AND CEILINGS WITHOUT PERIMETER RELIEF IS TO BE 30 LINEAR FEET OR 900 SQUARE FEET OF SURFACE AREA, WITH PERIMETER RELIEF IS TO BE 50 LINEAR FEET OR 2,500 SQUARE FEET OF SURFACE AREA. EXTERIOR JOINT SPACING IS TO BE 30 LINEAR FEET OR 900 SQUARE FEET OF SURFACE AREA.
19. CONSTRUCTION SEALANT JOINTS ARE REQUIRED AT CONTINUOUS GYPSUM BOARD SURFACES WITH DISSIMILAR PARTITION STRUCTURE.
20. PROVIDE DOUBLE STUDS AT BOTH JAMBS OF DOOR FRAMES AND HEADER.
21. PARTITIONS SHALL NOT BE FASTENED NOR BRACED TO DUCTWORK, CONDUIT OR PIPING.
22. DO NOT MECHANICALLY SECURE NEW STUD FRAMING TO EXISTING WINDOW FRAMES.

# POWER & SIGNAL NOTES

1. COORDINATE TELEPHONE/DATA INSTALLATION WITH APPROPRIATE SUB-CONTRACTOR.
2. ALL EXISTING ELECTRICAL DEVICES ARE TO REMAIN, UNLESS NOTED OTHERWISE. REPLACE DEVICE AND PLATE TO MATCH NEW AS REQUIRED.
3. ALL OUTLETS TO B

CAUTION: IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT

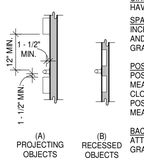



SEE ACCESSIBILITY DETAILS FOR DRINKING FOUNTAIN REQUIREMENTS

(*) ALCOVE SIDE WALLS (AND BARRIERS) SHALL PROJECT AT LEAST AS FAR AS THE DRINKING FOUNTAIN AND BE SPACED OUT TO ALLOW FOR A MINIMUM OF 36" CLEAR WHERE THE ALCOVE DEPTH EXCEEDS 24" (AT ALCOVES OR WITH BARRIERS).

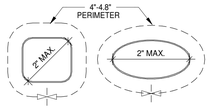
# D.F. PROTECTION

SCALE: 3/8" = 1'-0" 21




(A) PROJECTING OBJECTS (B) RECESSED OBJECTS

SPACING OF GRAB BARS




(A) (B)

GRAB BAR NON-CIRCULAR CROSS SECTION

CIRCULAR CROSS SECTION. GRAB BARS WITH CIRCULAR CROSS SECTIONS SHALL HAVE AN OUTSIDE DIAMETER OF 1-1/4 INCHES MINIMUM AND 2 INCHES MAXIMUM.

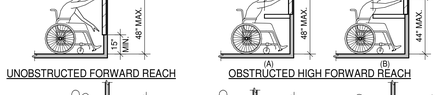
SPACING. THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1-1/2 INCHES. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE 1-1/2 INCHES MINIMUM. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12 INCHES MINIMUM.

POSITION OF GRAB BARS. GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION, 33 INCHES MINIMUM AND 36 INCHES MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE, EXCEPT THAT AT WATER CLOSETS FOR CHILDREN'S USE, GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION 18 INCHES MINIMUM AND 27 INCHES MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE.

BACKING. PROVIDE MIN. 6 INCHES x 16 GA CONTINUOUS SHEET METAL BACKING ATTACHED TO MIN. 3 STUD BAYS WITH #10 FLAT HEAD SHEET METAL SCREWS. INSTALL GRAB BARS PER MANUFACTURER'S REQUIREMENTS.

# GRAB BARS

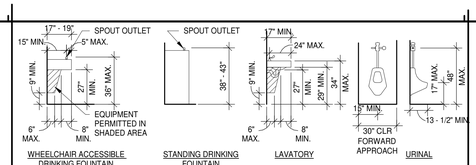
SCALE: 1/4" = 1'-0" 22




| MAXIMUM REACH DEPTH | 0.5" (13 mm) | 2" (51 mm) | 5" (125 mm) | 6" (150 mm) | 9 (230 mm) | 11" (280 mm) |
|---|---|---|---|---|---|---|
| MAXIMUM REACH HEIGHT | 48" (1220 mm) | 46" (1170 mm) | 42" (1065 mm) | 40" (1015 mm) | 36" (915 mm) | 34" (865 mm) |

# REACH RANGES

SCALE: 1/4" = 1'-0" 16

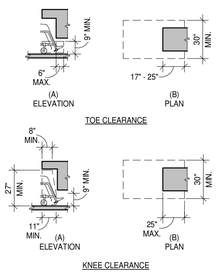



# MOUNTING HEIGHTS

SCALE: 1/4" = 1'-0" 11

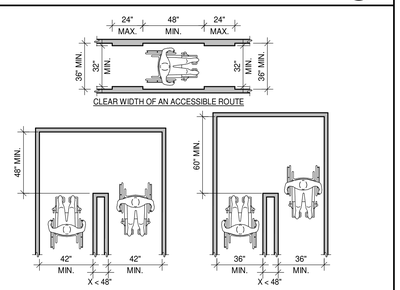
# FLOOR OR GROUND SURFACES & CHANGES IN LEVEL

SCALE: 1/2" = 1'-0" 17



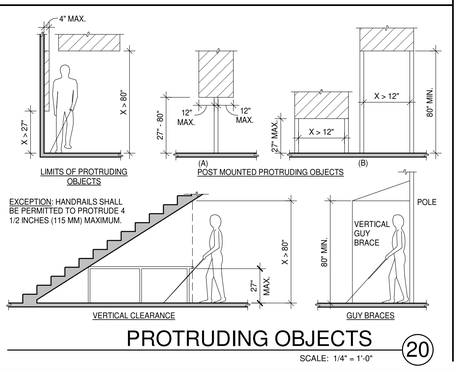

# KNEE AND TOE CLEARANCE

SCALE: 1/4" = 1'-0" 18



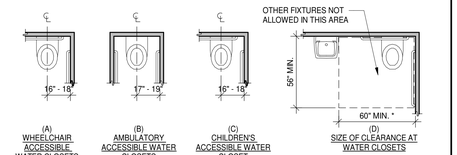

# CLEAR WIDTH

SCALE: 1/4" = 1'-0" 19

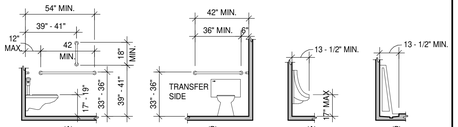



# PROTRUDING OBJECTS

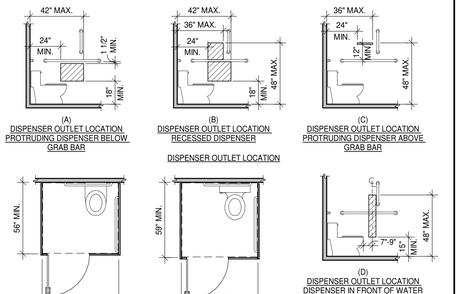
SCALE: 1/4" = 1'-0" 20



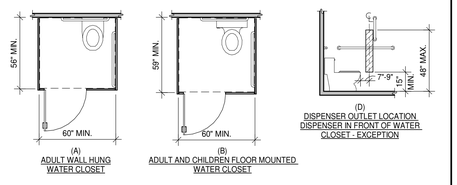

WATER CLOSET LOCATIONS



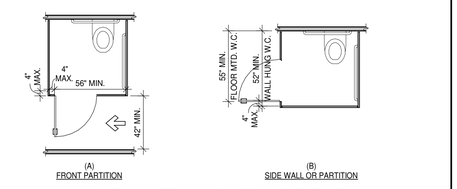

HEIGHT AND DEPTH OF URINALS



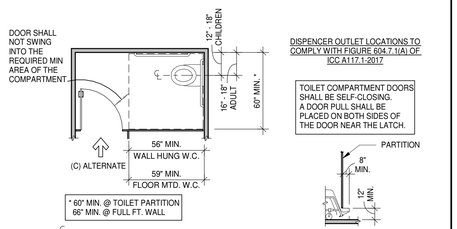

DISPENSER OUTLET LOCATION




SIZE OF WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT




WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT DOOR OPENINGS

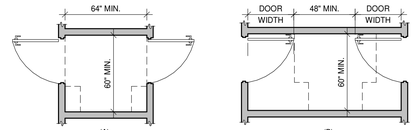



# WATER CLOSETS AND TOILET COMPARTMENTS & URINALS

SCALE: 1/4" = 1'-0" 15

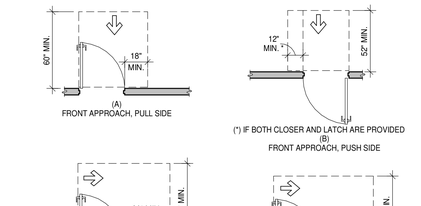
NOTES:

1. FLOOR OR GROUND SURFACE WITHIN REQUIRED MANEUVERING CLEARANCES AND LANDINGS ON BOTH SIDES OF DOORS SHALL COMPLY WITH [FLOOR OR GROUND SURFACES & CHANGES IN LEVEL] DETAIL AND SHALL HAVE A SLOPE NOT STEEPER THAN 1:48 IN ANY DIRECTION. VERTICAL CHANGES IN LEVEL ARE NOT PERMITTED.
2. THRESHOLDS, WHERE PROVIDED AT DOORWAYS, SHALL BE 1/2" MAX HIGH WITH A BEVELED PROFILE THAT COMPLIES WITH [FLOOR OR GROUND SURFACES & CHANGES IN LEVEL] DETAIL.
3. HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST TO OPERATE.
4. HARDWARE OPERATION BY A FORWARD, PUSHING OR PULLING MOTION: 15 POUNDS (66.7N) MAXIMUM.
5. HARDWARE OPERATION BY A ROTATIONAL MOTION-28 INCH-POUNDS (315N-CM) MAXIMUM.
6. OPERABLE PARTS OF DOOR HARDWARE SHALL BE 34" MIN. AND 48" MAX. ABOVE THE FINISH FLOOR OR GROUND.
7. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES.
8. DOOR AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90-DEGREES THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12-DEGREES FROM THE LATCH IS 5 SECONDS MIN.
9. DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70-DEGREES THE DOOR OR GATE SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS MIN.
10. THE FORCE REQUIRED TO PUSH OR PULL A DOOR OR GATE OPEN SHALL BE AS FOLLOWS:
    - 10.1 INTERIOR HINGED DOORS AND GATES: 5 LBS (22.5 N) MAX.
    - 10.2 SLIDING OR FOLDING DOORS: 5 LBS (22.5 N) MAX.
      EXCEPTION: THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT HOLD THE DOOR OR GATE IN A CLOSED POSITION SHALL NOT APPLY TO PANIC HARDWARE, DELAYED EGRESS DEVICES OR FIRE-RATED HARDWARE.
    - 10.3 REQUIRED FIRE DOORS: THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 LBS (66.7N).
    - 10.4 EXTERIOR HINGED DOORS: 5 LBS (22.5 N) MAX.
11. SWINGING DOOR AND GATE SURFACES WITHIN 10" OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACE SHALL BE WITHIN 1/16" OF THE SAME PLANE AS THE OTHER AND BE FREE OF SHARP OR ABRASIVE EDGES. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED.
12. WHERE AUTOMATIC AND POWER-ASSISTED DOORS AND GATES WITHOUT STANDBY POWER ARE PART OF A MEANS OF EGRESS THE CLEAR WIDTH OF BREAK OUT OPENINGS AT SWINGING OR SLIDING DOORS AND GATES SHALL BE 32" MIN. WHEN OPERATED IN EMERGENCY MODE.

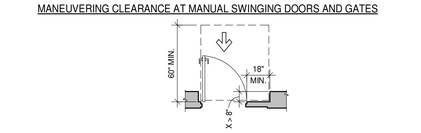



DOORS OR GATES IN SERIES

CLEAR WIDTH OF DOORWAYS




MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS AND GATES



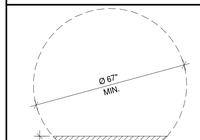

MANEUVERING CLEARANCE AT RECESSED DOORS AND GATES

# DOORS, DOORWAYS & GATES

SCALE: 1/4" = 1'-0" 10

# ACCESSIBILITY NOTES

1. "THE ACCESSIBILITY GUIDELINES AND CODES" MENTIONED BELOW REFER TO ALL APPLICABLE LOCAL/STATE BUILDING CODES REFERENCED ON THE PROJECT DATA SHEET OF THIS SET IN ADDITION TO THE FEDERAL REQUIREMENTS OF THE ADA (THE AMERICANS WITH DISABILITIES ACT).
2. DETAILS ON THIS SHEET ARE FOR REFERENCE ONLY. REFER TO THE ACCESSIBILITY GUIDELINES AND CODES FOR ALL ACCESSIBILITY REQUIREMENTS.
3. THE GENERAL CONTRACTOR SHALL BECOME FAMILIAR WITH THE ACCESSIBILITY GUIDELINES AND CODES.
4. ANY DISCREPANCY CONTAINED HEREIN DOES NOT RELIEVE THE GENERAL CONTRACTOR OR OWNER FROM COMPLYING WITH THE ACCESSIBILITY GUIDELINES AND CODES.

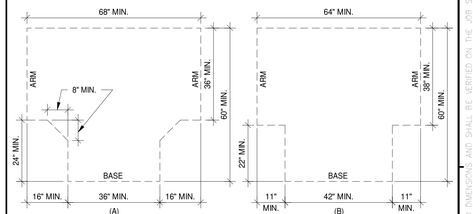


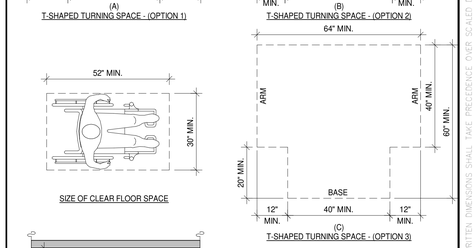

THE TURNING SPACE SHALL BE A CIRCULAR SPACE WITH 67-INCH MINIMUM DIAMETER.

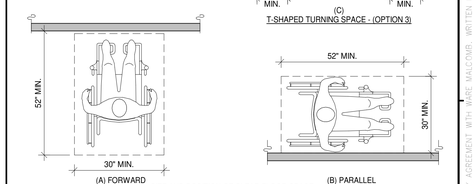
OVERLAP
TURNING SPACES SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE. WHERE THE TURNING SPACE INCLUDES KNEE AND TOE CLEARANCES UNDER AN OBSTRUCTION, THE OVERLAP SHALL COMPLY WITH ALL OF THE FOLLOWING:

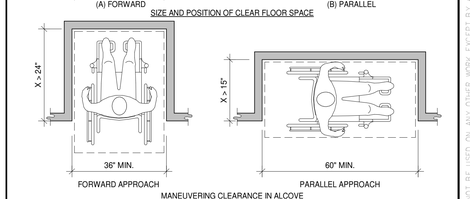
1. THE DEPTH OF THE OVERLAP SHALL NOT BE MORE THAN 10 INCHES.
2. THE DEPTH SHALL NOT EXCEED THE DEPTH OF THE KNEE AND TOE CLEARANCES PROVIDED.
3. THE OVERLAP SHALL BE PERMITTED ONLY WITHIN THE TURNING CIRCLE ARE SHOWN SHADED IN FIGURE

CIRCULAR TURNING SPACE SIZE AND OVERLAP



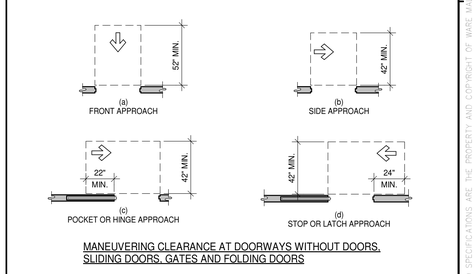




# CLEAR FLOOR OR GROUND SPACE

SCALE: 1/2" = 1'-0" 4




MANEUVERING CLEARANCE AT DOORWAYS WITHOUT DOORS, SLIDING DOORS, GATES AND FOLDING DOORS

# DOORS, DOORWAYS & GATES

SCALE: 1/4" = 1'-0" 5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P 925.244.3920


LICENSED ARCHITECT KAMMI ALLEN TAM No. C-34838 RENEWAL DATE 08-31-2025 STATE OF CALIFORNIA

U-HAUL TENANT IMPROVEMENT
4658 EVORA ROAD
CONCORD, CALIFORNIA 94520

ACCESSIBILITY DETAILS

| DATE | REMARKS |
|---|---|
| 05/17/2024 | PERMIT SUBMITTAL |

| | |
|---|---|
| PA/PM: | A. GHOORCHIAN |
| DRAWN BY.: | A.C. |
| JOB NO.: | SNR24-0001-00 |

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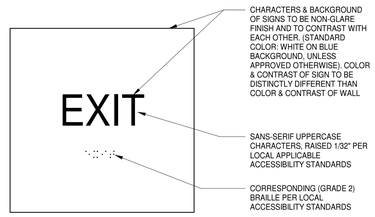
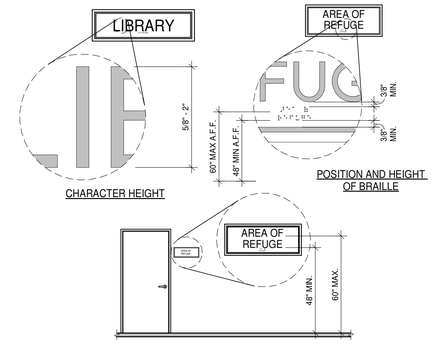


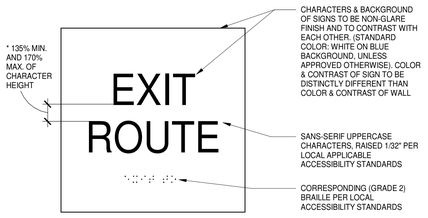

TACTILE "EXIT" SIGN 2

SCALE: 3" = 1'-0"



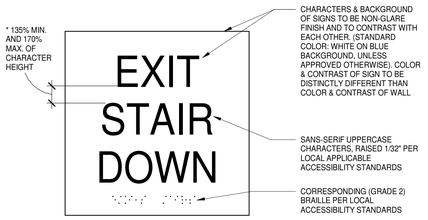

SIGNS 4

SCALE: 1/4" = 1'-0"




TACTILE "EXIT ROUTE" SIGN 22

SCALE: 3" = 1'-0"




TACTILE "EXIT STAIR DOWN" SIGN 24

SCALE: 3" = 1'-0"

| HEIGHT TO FINISH FLOOR FROM BASELINE OF CHARACTER | HORIZONTAL VIEWING DISTANCE | MINIMUM CHARACTER HEIGHT |
|---|---|---|
| 40 INCHES TO LESS THAN OR EQUAL TO 70 INCHES | LESS THAN 72 INCHES | 5/8 INCH |
| | 72 INCHES AND GREATER | 5/8 INCH, PLUS 1/8 INCH PER FOOT OF VIEWING DISTANCE ABOVE 72 INCHES |
| GREATER THAN 70 INCHES TO LESS THAN OR EQUAL TO 120 INCHES | LESS THAN 180 INCHES | 2 INCHES |
| | 180 INCHES AND GREATER | 2 INCHES, PLUS 1/8 INCH PER FOOT OF VIEWING DISTANCE ABOVE 180 INCHES |
| GREATER THAN 120 INCHES | LESS THAN 21 FEET | 3 INCHES |
| | 21 FEET AND GREATER | 3 INCHES, PLUS 1/8 INCH PER FOOT OF VIEWING DISTANCE ABOVE 21 FEET |

1. THE VERTICAL HEIGHT IS MEASURED FROM THE FLOOR OF THE VIEWING POSITION TO THE BASELINE OF THE HIGHEST LINE OF CHARACTERS.

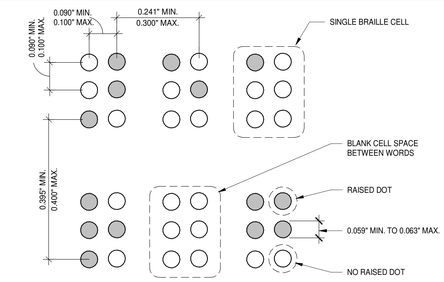
VISUAL CHARACTER HEIGHT 5

SCALE: 12" = 1'-0"



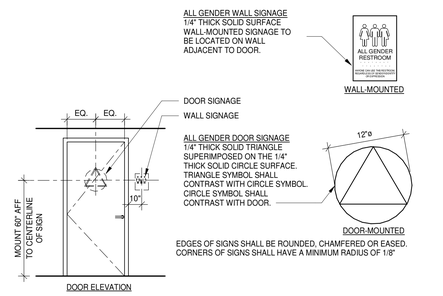

"MAXIMUM OCCUPANCY" SIGN 25

N.T.S.




BRAILLE MEASUREMENT 3

SCALE: 3/8" = 1'-0"




ALL GENDERS SIGNAGE 20

N.T.S.

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# 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE - NONRESIDENTIAL MANDATORY MEASURES

### 5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF LAND.

COMPLY WITH ALL LAWFULLY ENACTED STORMWATER DISCHARGE REGULATIONS FOR PROJECTS THAT (1) DISTURB ONE ACRE OR MORE OF LAND, OR (2) DISTURB LESS THAN ONE ACRE OF LAND BUT ARE PART OF A LARGER COMMON PLAN OF DEVELOPMENT OR SALE.

**NOTE:** PROJECTS THAT (1) DISTURB ONE ACRE OR MORE OF LAND, OR (2) DISTURB LESS THAN ONE ACRE OF LAND BUT ARE PART OF A LARGER COMMON PLAN OF DEVELOPMENT OR SALE MUST COMPLY WITH THE POSTCONSTRUCTION REQUIREMENTS DETAILED IN THE APPLICABLE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION AND LAND DISTURBANCE ACTIVITIES ISSUED BY THE STATE WATER RESOURCES CONTROL BOARD OR THE LAHONTAN REGIONAL WATER QUALITY CONTROL BOARD (FOR PROJECTS IN THE LAKE TAHOE HYDROLOGIC UNIT).

THE NPDES PERMITS REQUIRE POSTCONSTRUCTION RUNOFF (POSTPROJECT HYDROLOGY) TO MATCH THE PRECONSTRUCTION CONDITION (PREPROJECT HYDROLOGY) WITH THE INSTALLATION OF POSTCONSTRUCTION STORMWATER MANAGEMENT MEASURES. THE NPDES PERMITS EMPHASIZE RUNOFF REDUCTION THROUGH ON-SITE STORMWATER USE, INTERCEPTION, EVAPOTRANSPIRATION AND INFILTRATION THROUGH NONSTRUCTURAL CONTROLS, SUCH AS LOW IMPACT DEVELOPMENT (LID) PRACTICES AND CONSERVATION DESIGN MEASURES. STORMWATER VOLUME THAT CANNOT BE ADDRESSED USING NONSTRUCTURAL PRACTICES IS REQUIRED TO BE CAPTURED IN STRUCTURAL PRACTICES AND BE APPROVED BY THE ENFORCING AGENCY.

REFER TO THE CURRENT APPLICABLE PERMITS ON THE STATE WATER RESOURCES CONTROL BOARD WEBSITE AT: www.waterboards.ca.gov/constructionstormwater. CONSIDERATION TO THE STORMWATER RUNOFF MANAGEMENT MEASURES SHOULD BE GIVEN DURING THE INITIAL DESIGN PROCESS FOR APPROPRIATE INTEGRATION INTO SITE DEVELOPMENT.

### 5.106.4 BICYCLE PARKING

FOR BUILDINGS WITHIN THE AUTHORITY OF CALIFORNIA BUILDING STANDARDS COMMISSION AS SPECIFIED IN SECTION 103, COMPLY WITH SECTIONS 5.106.4.1. FOR BUILDINGS WITHIN THE AUTHORITY OF THE DIVISION OF THE STATE ARCHITECT PURSUANT TO SECTION 105, COMPLY WITH SECTION 5.106.4.2.

EXISTING TO REMAIN

#### 5.106.4.1 BICYCLE PARKING.

[BSC-CG] COMPLY WITH SECTIONS 5.106.4.1.1 AND 5.106.4.1.2; OR MEET THE APPLICABLE LOCAL ORDINANCE, WHICHEVER IS STRICTER.

##### 5.106.4.1.1 SHORT-TERM BICYCLE PARKING

IF THE NEW PROJECT OR AN ADDITION OR ALTERATION IS ANTICIPATED TO GENERATE VISITOR TRAFFIC, PROVIDE PERMANENTLY ANCHORED BICYCLE RACKS WITHIN 200 FEET OF THE VISITORS' ENTRANCE, READILY VISIBLE TO PASSERS-BY, FOR 5 PERCENT OF NEW VISITOR MOTORIZED VEHICLE PARKING SPACES BEING ADDED, WITH A MINIMUM OF ONE TWO-BIKE CAPACITY RACK.

**EXCEPTION:** ADDITIONS OR ALTERATIONS WHICH ADD NINE OR LESS VISITOR VEHICULAR PARKING SPACES.

148 VISITOR PARKING STALLS PROVIDED X 5% = 8 REQUIRED
10 SHORT-TERM BICYCLE SPACES EXISTING

##### 5.106.4.1.2 LONG-TERM BICYCLE PARKING

FOR NEW BUILDINGS WITH TENANT SPACES THAT HAVE 10 OR MORE TENANT-OCCUPANTS, PROVIDE SECURE BICYCLE PARKING FOR 5 PERCENT OF THE TENANT-OCCUPANT VEHICULAR PARKING SPACES WITH A MINIMUM OF ONE BICYCLE PARKING FACILITY.

##### 5.106.4.1.3.

FOR ADDITIONS OR ALTERATIONS THAT ADD 10 OR MORE TENANT-OCCUPANT VEHICULAR PARKING SPACES, PROVIDE SECURE BICYCLE PARKING FOR 5 PERCENT OF THE TENANT VEHICULAR PARKING SPACES BEING ADDED, WITH A MINIMUM OF ONE BICYCLE PARKING FACILITY.

##### 5.106.4.1.4.

FOR NEW SHELL BUILDINGS IN PHASED PROJECTS PROVIDE SECURE BICYCLE PARKING FOR 5 PERCENT OF THE ANTICIPATED TENANT-OCCUPANT VEHICULAR PARKING SPACES WITH A MINIMUM OF ONE BICYCLE PARKING FACILITY.

##### 5.106.4.1.5.

ACCEPTABLE BICYCLE PARKING FACILITY FOR SECTIONS 5.106.4.1.2, 5.106.4.1.3 AND 5.106.4.1.4 SHALL BE CONVENIENT FROM THE STREET AND SHALL MEET ONE OF THE FOLLOWING:

1. COVERED, LOCKABLE ENCLOSURES WITH PERMANENTLY ANCHORED RACKS FOR BICYCLES;
2. LOCKABLE BICYCLE ROOMS WITH PERMANENTLY ANCHORED RACKS; OR
3. LOCKABLE, PERMANENTLY ANCHORED BICYCLE LOCKERS.

**NOTE:**
ADDITIONAL INFORMATION ON RECOMMENDED BICYCLE ACCOMMODATIONS MAY BE OBTAINED FROM SACRAMENTO AREA BICYCLE ADVOCATES.

#### 5.106.4.2 BICYCLE PARKING.

[DSA-SS] FOR PUBLIC SCHOOLS AND COMMUNITY COLLEGES, COMPLY WITH SECTIONS 5.106.4.2.1 AND 5.106.4.2.2.

##### 5.106.4.2.1 STUDENT BICYCLE PARKING.

PROVIDE PERMANENTLY ANCHORED BICYCLE RACKS CONVENIENTLY ACCESSED WITH A MINIMUM OF FOUR TWO-BIKE CAPACITY RACKS PER NEW BUILDING.

##### 5.106.4.2.2 STAFF BICYCLE PARKING.

PROVIDE PERMANENT, SECURE BICYCLE PARKING CONVENIENTLY ACCESSED WITH A MINIMUM OF TWO STAFF BICYCLE PARKING SPACES PER NEW BUILDING. ACCEPTABLE BICYCLE PARKING FACILITIES SHALL BE CONVENIENT FROM THE STREET OR STAFF PARKING AREA AND SHALL MEET ONE OF THE FOLLOWING:

1. COVERED, LOCKABLE ENCLOSURES WITH PERMANENTLY ANCHORED RACKS FOR BICYCLES;
2. LOCKABLE BICYCLE ROOMS WITH PERMANENTLY ANCHORED RACKS; OR
3. LOCKABLE, PERMANENTLY ANCHORED BICYCLE LOCKERS.

### 5.106.5.3 ELECTRIC VEHICLE (EV) CHARGING

[N] CONSTRUCTION TO PROVIDE ELECTRIC VEHICLE INFRASTRUCTURE AND FACILITATE ELECTRIC VEHICLE CHARGING SHALL COMPLY WITH SECTION 5.106.5.3.1 AND SHALL BE PROVIDED IN ACCORDANCE WITH REGULATIONS IN THE CALIFORNIA BUILDING CODE AND THE CALIFORNIA ELECTRICAL CODE.

**EXCEPTIONS:**

1. ON A CASE-BY-CASE BASIS WHERE THE LOCAL ENFORCING AGENCY HAS DETERMINED COMPLIANCE WITH THIS SECTION IS NOT FEASIBLE BASED UPON ONE OF THE FOLLOWING CONDITIONS:
   A. WHERE THERE IS NO LOCAL UTILITY POWER SUPPLY.
   B. WHERE THE LOCAL UTILITY IS UNABLE TO SUPPLY ADEQUATE POWER.
   C. WHERE THERE IS EVIDENCE SUITABLE TO THE LOCAL ENFORCEMENT AGENCY SUBSTANTIATING THAT ADDITIONAL LOCAL UTILITY INFRASTRUCTURE DESIGN REQUIREMENTS, DIRECTLY RELATED TO THE IMPLEMENTATION OF SECTION 5.106.5.3, MAY ADVERSELY IMPACT THE CONSTRUCTION COST OF THE PROJECT.
2. PARKING SPACES ACCESSIBLE ONLY BY AUTOMATED MECHANICAL CAR PARKING SYSTEMS ARE NOT REQUIRED TO COMPLY WITH THIS CODE SECTION.

#### 5.106.5.3.1 EV CAPABLE SPACES.

[N] EV CAPABLE SPACES SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 5.106.5.3.1 AND THE FOLLOWING REQUIREMENTS:

1. RACEWAYS COMPLYING WITH THE CALIFORNIA ELECTRICAL CODE AND NO LESS THAN 1-INCH (25 MM) DIAMETER SHALL BE PROVIDED AND SHALL ORIGINATE AT A SERVICE PANEL OR A SUBPANEL(S) SERVING THE AREA, AND SHALL TERMINATE IN CLOSE PROXIMITY TO THE PROPOSED LOCATION OF THE EV CAPABLE SPACE AND INTO A SUITABLE LISTED CABINET, BOX, ENCLOSURE OR EQUIVALENT. A COMMON RACEWAY MAY BE USED TO SERVE MULTIPLE EV CAPABLE SPACES.
2. A SERVICE PANEL OR SUBPANEL(S) SHALL BE PROVIDED WITH PANEL SPACE AND ELECTRICAL LOAD CAPACITY FOR A DEDICATED 208/240 VOLT, 40-AMPERE MINIMUM BRANCH CIRCUIT FOR EACH EV CAPABLE SPACE, WITH DELIVERY OF 30-AMPERE MINIMUM TO AN INSTALLED EVSE AT EACH EVCS.
3. THE ELECTRICAL SYSTEM AND ANY ON-SITE DISTRIBUTION TRANSFORMERS SHALL HAVE SUFFICIENT CAPACITY TO SUPPLY FULL RATED AMPERAGE AT EACH EV CAPABLE SPACE.
4. THE SERVICE PANEL OR SUBPANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE RESERVED OVERCURRENT PROTECTIVE DEVICE SPACE(S) AS "EV CAPABLE", THE RACEWAY TERMINATION LOCATION SHALL BE PERMANENTLY AND VISIBLY MARKED AS "EV CAPABLE."

**NOTE:** A PARKING SPACE SERVED BY ELECTRIC VEHICLE SUPPLY EQUIPMENT OR DESIGNED AS A FUTURE EV CHARGING SPACE SHALL COUNT AS AT LEAST ONE STANDARD AUTOMOBILE PARKING SPACE ONLY FOR THE PURPOSE OF COMPLYING WITH ANY APPLICABLE MINIMUM PARKING SPACE REQUIREMENTS ESTABLISHED BY AN ENFORCEMENT AGENCY. SEE VEHICLE CODE SECTION 22511.2 FOR FURTHER DETAILS.

TABLE
5.106.5.3.1

| TOTAL NUMBER OF ACTUAL PARKING SPACES | NUMBER OF REQUIRED EV CAPABLE SPACES | NUMBER OF EVCS (EV CAPABLE SPACES PROVIDED WITH EVSE)[2] |
|---|---|---|
| 0-9 | 0 | 0 |
| 10-25 | 4 | 0 |
| 26-50 | 8 | 2 |
| 51-75 | 13 | 3 |
| 76-100 | 17 | 4 |
| 101-150 | 25 | 6 |
| 151-200 | 35 | 9 |
| 201 AND OVER | 20 PERCENT OF TOTAL[1] | 25 PERCENT OF EV CAPABLE SPACES[1] |

1. CALCULATION FOR SPACES SHALL BE ROUNDED UP TO THE NEAREST WHOLE NUMBER.
2. THE NUMBER OF REQUIRED EVCS (EV CAPABLE SPACES PROVIDED WITH EVSE) IN COLUMN 3 COUNT TOWARD THE TOTAL NUMBER OF REQUIRED EV CAPABLE SPACES SHOWN IN COLUMN 2.

EXISTING TO REMAIN. PER COUNTY ORDINANCE NO. 2019-31, FOR NEW NONRESIDENTIAL CONSTRUCTION, THE REQUIRED NUMBER OF EVCS EQUIPPED WITH FULLY OPERATIONAL EVSE. 148 TOTAL, 12 REQUIRED, 12 EXISTING PROVIDED.

#### 304.1.1 TIERS.

THE PROVISIONS OF DIVISIONS A4.6 AND A5.6 OUTLINE MEANS, IN THE FORM OF VOLUNTARY TIERS, FOR ACHIEVING ENHANCED CONSTRUCTION LEVELS BY INCORPORATING ADDITIONAL MEASURES FOR RESIDENTIAL AND NONRESIDENTIAL NEW CONSTRUCTION. VOLUNTARY TIERS MAY BE ADOPTED BY LOCAL GOVERNMENTS AND, WHEN ADOPTED, ENFORCED BY LOCAL ENFORCING AGENCIES. BUILDINGS COMPLYING WITH TIERS SPECIFIED FOR EACH OCCUPANCY CONTAIN ADDITIONAL PREREQUISITE AND ELECTIVE GREEN BUILDING MEASURES NECESSARY TO MEET THE THRESHOLD OF EACH TIER. SEE SECTION 101.7 OF THIS CODE FOR PROCEDURES AND REQUIREMENTS RELATED TO LOCAL AMENDMENTS, ADDITIONS OR DELETIONS, INCLUDING CHANGES TO ENERGY STANDARDS.

[BSC & HCD] WHERE THERE ARE PRACTICAL DIFFICULTIES INVOLVED IN COMPLYING WITH THE THRESHOLD LEVELS OF A TIER, THE ENFORCING AGENCY MAY GRANT MODIFICATIONS FOR INDIVIDUAL CASES. THE ENFORCING AGENCY SHALL FIRST FIND THAT A SPECIAL INDIVIDUAL REASON MAKES THE STRICT LETTER OF THE TIER IMPRACTICAL AND THAT MODIFICATION IS IN CONFORMANCE WITH THE INTENT AND PURPOSE OF THE MEASURE. THE DETAILS OF ANY ACTION GRANTING MODIFICATION SHALL BE RECORDED AND ENTERED IN THE FILES OF THE ENFORCING AGENCY.

### SECTION 305 (OSHPD 1) CALGREEN TIER 1 AND CALGREEN TIER 2

#### 305.1

*CALGREEN TIER 1 AND CALGREEN TIER 2* BUILDINGS CONTAIN VOLUNTARY GREEN BUILDING MEASURES NECESSARY TO MEET THE THRESHOLD OF EACH LEVEL.

##### 305.1.1 CALGREEN TIER 1.

TO ACHIEVE CALGREEN TIER 1, BUILDINGS MUST COMPLY WITH THE LATEST EDITION OF "SAVINGS BY DESIGN, HEALTHCARE MODELING PROCEDURES" FOUND ONLINE AT http://www.energysoft.com/main/page_downloads_sbd_healthcare.html.

##### 305.1.2 CALGREEN TIER 2.

TO ACHIEVE *CALGREEN TIER 2*, BUILDINGS MUST EXCEED THE LATEST EDITION OF "SAVINGS BY DESIGN, HEALTHCARE MODELING PROCEDURES" BY A MINIMUM OF 15 PERCENT.

### SECTION 306 [DSA-SS] VOLUNTARY MEASURES

#### 306.1 PURPOSE.

FOR PUBLIC SCHOOLS AND COMMUNITY COLLEGES, VOLUNTARY MEASURES FURTHER ENCOURAGE BUILDING PRACTICES THAT IMPROVE PUBLIC HEALTH, SAFETY AND GENERAL WELFARE BY PROMOTING THE USE OF BUILDING CONCEPTS WHICH MINIMIZE THE BUILDING'S IMPACT ON THE ENVIRONMENT AND PROMOTE A MORE SUSTAINABLE DESIGN.

##### 306.1.1

APPENDIX A5, DIVISIONS A5.1 THROUGH A5.5, OUTLINE MEANS OF ACHIEVING ENHANCED SUSTAINABLE DESIGN AND CONSTRUCTION BY INCORPORATING VOLUNTARY MEASURES THAT EXCEED THE MANDATORY MEASURES.

##### 306.1.2

CHAPTER 5 NONRESIDENTIAL MANDATORY MEASURES THAT ARE NOT ADOPTED AS MANDATORY MEASURES BY DSA-SS ARE VOLUNTARY MEASURES RECOMMENDED AND ENCOURAGED FOR THE DESIGN, CONSTRUCTION, VERIFICATION AND MAINTENANCE OF NON-ENERGY SYSTEMS.

**NOTE:** THE BUILDING COMMISSIONING REQUIREMENTS FOR ENERGY EFFICIENCY SPECIFIED IN THE CALIFORNIA ENERGY CODE ARE REQUIRED.

# CHAPTER 5
# NONRESIDENTIAL MANDATORY MEASURES
# DIVISION 5.1 – PLANNING AND DESIGN

### SECTION 5.101 GENERAL

#### 5.101.1 SCOPE.

THE PROVISIONS OF THIS CHAPTER OUTLINE PLANNING, DESIGN AND DEVELOPMENT METHODS THAT INCLUDE ENVIRONMENTALLY RESPONSIBLE SITE SELECTION, BUILDING DESIGN, BUILDING SITING AND DEVELOPMENT TO PROTECT, RESTORE AND ENHANCE THE ENVIRONMENTAL QUALITY OF THE SITE AND RESPECT THE INTEGRITY OF ADJACENT PROPERTIES.

### SECTION 5.102 DEFINITIONS

#### 5.102.1 DEFINITIONS.

THE FOLLOWING TERMS ARE DEFINED IN CHAPTER 2.
**CUTOFF LUMINAIRES.** LUMINAIRES WHOSE LIGHT DISTRIBUTION IS SUCH THAT THE CANDELA PER 1000 LAMP LUMENS DOES NOT NUMERICALLY EXCEED 25 (2.5 PERCENT) AT AN ANGLE OF 90 DEGREES ABOVE NADIR, AND 100 (10 PERCENT) AT A VERTICAL ANGLE OF 80 DEGREES ABOVE NADIR. THIS APPLIES TO ALL LATERAL ANGLES AROUND THE LUMINAIRE.

**TENANT-OCCUPANTS.** BUILDING OCCUPANTS WHO INHABIT A BUILDING DURING ITS NORMAL HOURS OF OPERATION AS PERMANENT OCCUPANTS, SUCH AS EMPLOYEES, AS DISTINGUISHED FROM CUSTOMERS AND OTHER TRANSIENT VISITORS.

**ZEV.** [BSC-CG, DSA-SS] ANY VEHICLE CERTIFIED TO ZERO-EMISSION STANDARDS.

### SECTION 5.106 SITE DEVELOPMENT

#### 5.106.1 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND.

NEWLY CONSTRUCTED PROJECTS AND ADDITIONS WHICH DISTURB LESS THAN ONE ACRE OF LAND AND ARE NOT PART OF A LARGER COMMON PLAN OF DEVELOPMENT OR SALE SHALL PREVENT THE POLLUTION OF STORMWATER RUNOFF FROM THE CONSTRUCTION ACTIVITIES THROUGH ONE OR MORE OF THE FOLLOWING MEASURES:

##### 5.106.1.1 LOCAL ORDINANCE

COMPLY WITH LAWFULLY ENACTED STORMWATER MANAGEMENT AND/OR EROSION CONTROL ORDINANCE.

##### 5.106.1.2 BEST MANAGEMENT PRACTICES (BMP'S).

PREVENT THE LOSS OF SOIL THROUGH WIND OR WATER EROSION BY IMPLEMENTING AN EFFECTIVE COMBINATION OF EROSION AND SEDIMENT CONTROL AND GOOD HOUSEKEEPING BMP'S.

1. SOIL LOSS BMP'S THAT SHOULD BE CONSIDERED FOR IMPLEMENTATION AS APPROPRIATE FOR EACH PROJECT INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
   A. SCHEDULING CONSTRUCTION ACTIVITY DURING DRY WEATHER, WHEN POSSIBLE.
   B. PRESERVATION OF NATURAL FEATURES, VEGETATION, SOIL AND BUFFERS AROUND SURFACE WATERS.
   C. DRAINAGE SWALES OR LINED DITCHES TO CONTROL STORMWATER FLOW.
   D. MULCHING OR HYDROSEEDING TO STABILIZE DISTURBED SOILS.
   E. EROSION CONTROL TO PROTECT SLOPES.
   F. PROTECTION OF STORM DRAIN INLETS (GRAVEL BAGS OR CATCH BASIN INSERTS).
   G. PERIMETER SEDIMENT CONTROL (PERIMETER SILT FENCE, FIBER ROLLS).
   H. SEDIMENT TRAP OR SEDIMENT BASIN TO RETAIN SEDIMENT ON SITE.
   I. STABILIZED CONSTRUCTION EXITS.
   J. WIND EROSION CONTROL.
   K. OTHER SOIL LOSS BMP'S ACCEPTABLE TO THE ENFORCING AGENCY.
2. GOOD HOUSEKEEPING BMP'S TO MANAGE CONSTRUCTION EQUIPMENT, MATERIALS, NON-STORMWATER DISCHARGES AND WASTES THAT SHOULD BE CONSIDERED FOR IMPLEMENTATION AS APPROPRIATE FOR EACH PROJECT INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
   A. SCHEDULING CONSTRUCTION ACTIVITY DURING DRY WEATHER, WHEN POSSIBLE.
   B. PRESERVATION OF NATURAL FEATURES, VEGETATION, SOIL AND BUFFERS AROUND SURFACE WATERS.
   C. DRAINAGE SWALES OR LINED DITCHES TO CONTROL STORMWATER FLOW.
   D. MULCHING OR HYDROSEEDING TO STABILIZE DISTURBED SOILS.
   E. EROSION CONTROL TO PROTECT SLOPES.
   F. PROTECTION OF STORM DRAIN INLETS (GRAVEL BAGS OR CATCH BASIN INSERTS).
   G. PERIMETER SEDIMENT CONTROL (PERIMETER SILT FENCE, FIBER ROLLS).
   H. SEDIMENT TRAP OR SEDIMENT BASIN TO RETAIN SEDIMENT ON SITE.
   I. STABILIZED CONSTRUCTION EXITS.
   J. WIND EROSION CONTROL.
   K. OTHER SOIL LOSS BMP'S ACCEPTABLE TO THE ENFORCING AGENCY.

#### 106.3 OSHPD 4.

SPECIFIC SCOPE OF APPLICATION OF THE AGENCY RESPONSIBLE FOR ENFORCEMENT, ENFORCEMENT AGENCY AND THE SPECIFIC AUTHORITY TO ADOPT AND ENFORCE SUCH PROVISIONS OF THIS CODE, UNLESS OTHERWISE STATED.

**APPLICATION**—CORRECTIONAL TREATMENT CENTERS.
**ENFORCING AGENCY**—OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT (OSHPD). THE OFFICE SHALL ALSO ENFORCE THE DIVISION OF THE STATE ARCHITECT—ACCESS COMPLIANCE REGULATIONS AND THE REGULATIONS OF THE OFFICE OF THE STATE FIRE MARSHAL FOR THE ABOVE-STATED FACILITY TYPES.

#### 106.3.1 APPLICABLE ADMINISTRATIVE STANDARDS.

1. TITLE 24, PART 1, CALIFORNIA CODE OF REGULATIONS: CHAPTER 7.
2. TITLE 24, PART 2, CALIFORNIA CODE OF REGULATIONS: SECTIONS 1.1 AND 1.10 OF CHAPTER 1, DIVISION I AND CHAPTER 1, DIVISION II.

#### 106.3.2 APPLICABLE BUILDING STANDARDS.

*CALIFORNIA BUILDING STANDARDS CODE*, TITLE 24, PARTS 2, 3, 4, 5, 9, 11 AND 12.

#### 106.3.3 IDENTIFICATION OF AMENDMENTS.

FOR APPLICATIONS LISTED IN SECTION 106.3, AMENDMENTS APPEAR IN THIS CODE PRECEDED WITH THE ACRONYM (OSHPD 4), UNLESS THE ENTIRE CHAPTER IS APPLICABLE.

**AUTHORITY**—HEALTH AND SAFETY CODE SECTIONS 127010, 127010, 127015 AND 129790.
**REFERENCES**—HEALTH AND SAFETY CODE SECTIONS 127010, 127015, 1275, AND 129675 THROUGH 130070.

# CHAPTER 3
# GREEN BUILDING

### SECTION 301 GENERAL

#### 301.1 SCOPE.

BUILDINGS SHALL BE DESIGNED TO INCLUDE THE GREEN BUILDING MEASURES SPECIFIED AS MANDATORY IN THE APPLICATION CHECKLISTS CONTAINED IN THIS CODE. VOLUNTARY GREEN BUILDING MEASURES ARE ALSO INCLUDED IN THE APPLICATION CHECKLISTS AND MAY BE INCLUDED IN THE DESIGN AND CONSTRUCTION OF STRUCTURES COVERED BY THIS CODE, BUT ARE NOT REQUIRED UNLESS ADOPTED BY A CITY, COUNTY, OR CITY AND COUNTY AS SPECIFIED IN SECTION 101.7.

##### 301.1.1 ADDITIONS AND ALTERATIONS.

[HCD] THE MANDATORY PROVISIONS OF CHAPTER 4 SHALL BE APPLIED TO ADDITIONS OR ALTERATIONS OF EXISTING RESIDENTIAL BUILDINGS WHERE THE ADDITION OR ALTERATION INCREASES THE BUILDING'S CONDITIONED AREA, VOLUME OR SIZE. THE REQUIREMENTS SHALL APPLY ONLY TO AND/OR WITHIN THE SPECIFIC AREA OF THE ADDITION OR ALTERATION.

THE MANDATORY PROVISIONS OF SECTION 4.106.4.2 MAY APPLY TO ADDITIONS OR ALTERATIONS OF EXISTING PARKING FACILITIES OR THE ADDITION OF NEW PARKING FACILITIES SERVING EXISTING MULTIFAMILY BUILDINGS. SEE SECTION 4.106.4.3 FOR APPLICATION.

**NOTE:** REPAIRS INCLUDING, BUT NOT LIMITED TO, RESURFACING, RESTRIPING, AND REPAIRING OR MAINTAINING EXISTING LIGHTING FIXTURES ARE NOT CONSIDERED ALTERATIONS FOR THE PURPOSE OF THIS SECTION.

#### 301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS.

[HCD] THE PROVISIONS OF INDIVIDUAL SECTIONS OF CALGREEN MAY APPLY TO EITHER LOW-RISE RESIDENTIAL BUILDINGS, HIGH-RISE RESIDENTIAL BUILDINGS, OR BOTH. INDIVIDUAL SECTIONS WILL BE DESIGNATED BY BANNERS TO INDICATE WHERE THE SECTION APPLIES SPECIFICALLY TO LOW-RISE ONLY (LR) OR HIGH-RISE ONLY (HR). WHEN THE SECTION APPLIES TO BOTH LOW-RISE AND HIGH-RISE BUILDINGS, NO BANNER WILL BE USED.

#### 301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS.

[BSC-CG] THE PROVISIONS OF INDIVIDUAL SECTIONS OF CHAPTER 5 APPLY TO NEWLY CONSTRUCTED BUILDINGS, BUILDING ADDITIONS OF 1,000 SQUARE FEET OR GREATER, AND/OR BUILDING ALTERATIONS WITH A PERMIT VALUATION OF $200,000 OR ABOVE (FOR OCCUPANCIES WITHIN THE AUTHORITY OF CALIFORNIA BUILDING STANDARDS COMMISSION). CODE SECTIONS RELEVANT TO ADDITIONS AND ALTERATIONS SHALL ONLY APPLY TO THE PORTIONS OF THE BUILDING BEING ADDED OR ALTERED WITHIN THE SCOPE OF THE PERMITTED WORK.

A CODE SECTION WILL BE DESIGNATED BY A BANNER TO INDICATE WHERE THE CODE SECTION ONLY APPLIES TO NEWLY CONSTRUCTED BUILDINGS [N] OR TO ADDITIONS AND/OR ALTERATIONS [A]. WHEN THE CODE SECTION APPLIES TO BOTH, NO BANNER WILL BE USED.

#### 301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS THAT CAUSE UPDATES TO PLUMBING FIXTURES ONLY:

**NOTE:** ON AND AFTER JANUARY 1, 2014, CERTAIN COMMERCIAL REAL PROPERTY, AS DEFINED IN CIVIL CODE SECTION 1101.3, SHALL HAVE ITS NONCOMPLIANT PLUMBING FIXTURES REPLACED WITH APPROPRIATE WATER-CONSERVING PLUMBING FIXTURES UNDER SPECIFIC CIRCUMSTANCES. SEE CIVIL CODE SECTION 1101.1 ET SEQ. FOR DEFINITIONS, TYPES OF COMMERCIAL REAL PROPERTY AFFECTED, EFFECTIVE DATES, CIRCUMSTANCES NECESSITATING REPLACEMENT OF NONCOMPLIANT PLUMBING FIXTURES, AND DUTIES AND RESPONSIBILITIES FOR ENSURING COMPLIANCE.

#### 301.3.2 WASTE DIVERSION.

THE REQUIREMENTS OF SECTION 5.408 SHALL BE REQUIRED FOR ADDITIONS AND ALTERATIONS WHENEVER A PERMIT IS REQUIRED FOR WORK.

#### 301.4 MANDATORY MEASURES FOR PUBLIC SCHOOLS AND COMMUNITY COLLEGES.

[DSA-SS] NEW BUILDING CONSTRUCTION AND SITE WORK ON A NEW OR EXISTING SITE SHALL COMPLY WITH SECTION 301.4.

##### 301.4.1

BUILDING AND SITE CONSTRUCTION ON A NEW SITE SHALL COMPLY WITH CHAPTER 5 AS ADOPTED BY DSA-SS.

##### 301.4.2

WORK ON AN EXISTING SITE SHALL COMPLY WITH SECTION 301.4.2.

###### 301.4.2.1

NEWLY CONSTRUCTED SITE WORK SHALL COMPLY WITH CHAPTER 5 AS ADOPTED BY DSA-SS.

###### 301.4.2.2

NEWLY CONSTRUCTED BUILDINGS SHALL COMPLY WITH CHAPTER 5 AS ADOPTED BY DSA-SS AND SECTION 301.4.3.

###### 301.4.2.3

ADDITIONS TO EXISTING BUILDINGS SHALL COMPLY WITH SECTION 301.4.3.

###### 301.4.2.4

REHABILITATED LANDSCAPE AREAS SHALL COMPLY WITH SECTIONS 5.304.6 AND 5.106.12.

#### 301.4.3 MINIMUM REHABILITATED LANDSCAPE AREA REQUIREMENT.

A MINIMUM REHABILITATED LANDSCAPE AREA EQUAL TO 75 PERCENT OF THE FOOTPRINT AREA OF THE BUILDING SHALL COMPLY WITH SECTION 5.304.6 AND SECTION 5.106.12. NEW BUILDINGS OR ADDITIONS TO EXISTING BUILDINGS LESS THAN 1,600 SQUARE FEET SHALL NOT BE REQUIRED TO COMPLY WITH SECTION 301.4.3.

#### 301.5 HEALTH FACILITIES.

[OSHPD 1, 2 & 4] HEALTH FACILITIES UNDER THE JURISDICTION OF THE OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT (OSHPD) ARE REQUIRED TO COMPLY WITH THE MANDATORY MEASURES PRESCRIBED IN SECTION 5.304, OUTDOOR WATER USE. COMPLIANCE WITH SECTION 5.304, AS ADOPTED BY THE BUILDING STANDARDS COMMISSION, IS ENFORCED BY THE LOCAL AGENCY HAVING JURISDICTION. EVIDENCE OF LOCAL APPROVAL SHALL BE SUBMITTED TO OSHPD PRIOR TO ISSUANCE OF PLAN APPROVAL OR A BUILDING PERMIT.

### SECTION 302 MIXED OCCUPANCY BUILDINGS

#### 302.1 MIXED OCCUPANCY BUILDINGS.

IN MIXED OCCUPANCY BUILDINGS, EACH PORTION OF A BUILDING SHALL COMPLY WITH THE SPECIFIC GREEN BUILDING MEASURES APPLICABLE TO EACH SPECIFIC OCCUPANCY.

**EXCEPTIONS:**

1. [HCD] ACCESSORY STRUCTURES AND ACCESSORY OCCUPANCIES SERVING RESIDENTIAL BUILDINGS SHALL COMPLY WITH CHAPTER 4 AND APPENDIX A4, AS APPLICABLE.
2. [HCD] FOR THE PURPOSES OF CALGREEN, LIVE/WORK UNITS, COMPLYING WITH SECTION 508.5 OF THE CALIFORNIA BUILDING CODE, SHALL NOT BE CONSIDERED MIXED OCCUPANCIES. LIVE/WORK UNITS SHALL COMPLY WITH CHAPTER 4 AND APPENDIX A4, AS APPLICABLE.

### SECTION 303 PHASED PROJECTS

#### 303.1 PHASED PROJECTS.

FOR SHELL BUILDINGS AND OTHERS CONSTRUCTED FOR FUTURE TENANT IMPROVEMENTS, ONLY THOSE CODE MEASURES RELEVANT TO THE BUILDING COMPONENTS AND SYSTEMS CONSIDERED TO BE NEW CONSTRUCTION (OR NEWLY CONSTRUCTED) SHALL APPLY.

##### 303.1.1 INITIAL TENANT IMPROVEMENTS.

THE PROVISIONS OF THIS CODE SHALL APPLY ONLY TO THE INITIAL TENANT IMPROVEMENTS TO A PROJECT. SUBSEQUENT TENANT IMPROVEMENTS SHALL COMPLY WITH THE SCOPING PROVISIONS IN SECTION 301.3 NON-RESIDENTIAL ADDITIONS AND ALTERATIONS.

### SECTION 304 VOLUNTARY TIERS

#### 304.1 PURPOSE.

VOLUNTARY TIERS ARE INTENDED TO FURTHER ENCOURAGE BUILDING PRACTICES THAT IMPROVE PUBLIC HEALTH, SAFETY AND GENERAL WELFARE BY PROMOTING THE USE OF BUILDING CONCEPTS WHICH MINIMIZE THE BUILDING'S IMPACT ON THE ENVIRONMENT AND PROMOTE A MORE SUSTAINABLE DESIGN.

### SECTION103 BUILDING STANDARDS COMMISSION

#### 103.1 BSC-CG.

SPECIFIC SCOPE OF APPLICATION OF THE AGENCY RESPONSIBLE FOR ENFORCEMENT, THE ENFORCEMENT AGENCY, AND THE SPECIFIC AUTHORITY TO ADOPT AND ENFORCE SUCH PROVISIONS OF THIS CODE, UNLESS OTHERWISE STATED.

1. **APPLICATION**—ALL OCCUPANCIES WHERE NO STATE AGENCY HAS THE AUTHORITY TO ADOPT GREEN BUILDING STANDARDS APPLICABLE TO THOSE OCCUPANCIES.
   **ENFORCING AGENCY**—STATE OR LOCAL AGENCY SPECIFIED BY THE APPLICABLE PROVISIONS OF LAW.
   **AUTHORITY CITED**—*HEALTH AND SAFETY CODE* SECTIONS 18930.5(A), 18938 AND 18940.5.
   **REFERENCE**—*HEALTH AND SAFETY CODE*, DIVISION 13, PART 2.5, COMMENCING WITH SECTION 18901.
2. **GRAYWATER SYSTEMS**. THE CONSTRUCTION, INSTALLATION AND ALTERATION OF GRAYWATER SYSTEMS FOR INDOOR AND OUTDOOR USES IN NONRESIDENTIAL OCCUPANCIES.
   **APPLICATION**—ALL OCCUPANCIES WHERE NO STATE AGENCY HAS THE AUTHORITY TO ADOPT GREEN BUILDING STANDARDS APPLICABLE TO THOSE OCCUPANCIES.
   **ENFORCING AGENCY**—STATE OR LOCAL AGENCY SPECIFIED BY THE APPLICABLE PROVISIONS OF LAW.
   **AUTHORITY CITED**—*HEALTH AND SAFETY CODE* SECTION 18941.8.
   **REFERENCE**—*HEALTH AND SAFETY CODE* SECTION 18941.8.

#### 103.1.1 ADOPTING AGENCY IDENTIFICATION.

THE PROVISIONS OF THIS CODE APPLICABLE TO BUILDINGS IDENTIFIED IN THIS SECTION WIL

CAUTION: IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT

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### 5.410.2.3 COMMISSIONING PLAN

[N] PRIOR TO PERMIT ISSUANCE A COMMISSIONING PLAN SHALL BE COMPLETED TO DOCUMENT HOW THE PROJECT WILL BE COMMISSIONED. THE COMMISSIONING PLAN SHALL INCLUDE THE FOLLOWING:

1. GENERAL PROJECT INFORMATION.
2. COMMISSIONING GOALS.
3. SYSTEMS TO BE COMMISSIONED. PLANS TO TEST SYSTEMS AND COMPONENTS SHALL INCLUDE:
   A. AN EXPLANATION OF THE ORIGINAL DESIGN INTENT.
   B. EQUIPMENT AND SYSTEMS TO BE TESTED, INCLUDING THE EXTENT OF TESTS.
   C. FUNCTIONS TO BE TESTED.
   D. CONDITIONS UNDER WHICH THE TEST SHALL BE PERFORMED.
   E. MEASURABLE CRITERIA FOR ACCEPTABLE PERFORMANCE.
4. COMMISSIONING TEAM INFORMATION.
5. COMMISSIONING PROCESS ACTIVITIES, SCHEDULES AND RESPONSIBILITIES. PLANS FOR THE COMPLETION OF COMMISSIONING SHALL BE INCLUDED.

NOT APPLICABLE.

### 5.410.2.4 FUNCTIONAL PERFORMANCE TESTING.

[N] FUNCTIONAL PERFORMANCE TESTS SHALL DEMONSTRATE THE CORRECT INSTALLATION AND OPERATION OF EACH COMPONENT, SYSTEM AND SYSTEM- TO-SYSTEM INTERFACE IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. FUNCTIONAL PERFORMANCE TESTING REPORTS SHALL CONTAIN INFORMATION ADDRESSING EACH OF THE BUILDING COMPONENTS TESTED, THE TESTING METHODS UTILIZED, AND INCLUDE ANY READINGS AND ADJUSTMENTS MADE.

SEE MEP SPECIFICATIONS.

### 5.410.2.5 DOCUMENTATION AND TRAINING.

**[N]** A SYSTEMS MANUAL AND SYSTEMS OPERATIONS TRAINING ARE REQUIRED, INCLUDING OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) REQUIREMENTS IN CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 8, SECTION 5142, AND OTHER RELATED REGULATIONS.

#### 5.410.2.5.1 SYSTEMS MANUAL.

[N] DOCUMENTATION OF THE OPERATIONAL ASPECTS OF THE BUILDING SHALL BE COMPLETED WITHIN THE SYSTEMS MANUAL AND DELIVERED TO THE BUILDING OWNER OR REPRESENTATIVE. THE SYSTEMS MANUAL SHALL INCLUDE THE FOLLOWING:

1. SITE INFORMATION, INCLUDING FACILITY DESCRIPTION, HISTORY AND CURRENT REQUIREMENTS.
2. SITE CONTACT INFORMATION.
3. BASIC OPERATIONS AND MAINTENANCE, INCLUDING GENERAL SITE OPERATING PROCEDURES, BASIC TROUBLESHOOTING, RECOMMENDED MAINTENANCE REQUIREMENTS, SITE EVENTS LOG.
4. MAJOR SYSTEMS.
5. SITE EQUIPMENT INVENTORY AND MAINTENANCE NOTES.
6. A COPY OF VERIFICATIONS REQUIRED BY THE ENFORCING AGENCY OR THIS CODE.
7. OTHER RESOURCES AND DOCUMENTATION, IF APPLICABLE.

SEE MEP SPECIFICATIONS.

#### 5.410.2.5.2 SYSTEMS OPERATIONS TRAINING.

**[N]** A PROGRAM FOR TRAINING OF THE APPROPRIATE MAINTENANCE STAFF FOR EACH EQUIPMENT TYPE AND/OR SYSTEM SHALL BE DEVELOPED AND DOCUMENTED IN THE COMMISSIONING REPORT AND SHALL INCLUDE THE FOLLOWING:

1. SYSTEM/EQUIPMENT OVERVIEW (WHAT IT IS, WHAT IT DOES AND WITH WHAT OTHER SYSTEMS AND/OR EQUIPMENT IT INTERFACES).
2. REVIEW AND DEMONSTRATION OF SERVICING/PREVENTIVE MAINTENANCE.
3. REVIEW OF THE INFORMATION IN THE SYSTEMS MANUAL.
4. REVIEW OF THE RECORD DRAWINGS ON THE SYSTEM/EQUIPMENT.

### 5.410.2.6 COMMISSIONING REPORT.

**[N]** A REPORT OF COMMISSIONING PROCESS ACTIVITIES UNDERTAKEN THROUGH THE DESIGN AND CONSTRUCTION PHASES OF THE BUILDING PROJECT SHALL BE COMPLETED AND PROVIDED TO THE OWNER OR REPRESENTATIVE.

### 5.410.4 TESTING AND ADJUSTING, NEW BUILDINGS LESS THAN 10,000 SQUARE FEET.

TESTING AND ADJUSTING OF SYSTEMS SHALL BE REQUIRED FOR NEW BUILDINGS LESS THAN 10,000 SQUARE FEET OR NEW SYSTEMS TO SERVE AN ADDITION OR ALTERATION SUBJECT TO SECTION 303.1.

SEE MEP SPECIFICATIONS.

#### 5.410.4.1 (RESERVED)

**NOTE:** FOR ENERGY-RELATED SYSTEMS UNDER THE SCOPE (SECTION 100) OF THE CALIFORNIA ENERGY CODE, INCLUDING HEATING, VENTILATION, AIR CONDITIONING (HVAC) SYSTEMS AND CONTROLS, INDOOR LIGHTING SYSTEM AND CONTROLS, AS WELL AS WATER HEATING SYSTEMS AND CONTROLS, REFER TO CALIFORNIA ENERGY CODE SECTION 120.8 FOR COMMISSIONING REQUIREMENTS AND SECTIONS 120.5, 120.6, 130.4 AND 140.9(B)3 FOR ADDITIONAL TESTING REQUIREMENTS OF SPECIFIC SYSTEMS.

#### 5.410.4.2 SYSTEMS.

DEVELOP A WRITTEN PLAN OF PROCEDURES FOR TESTING AND ADJUSTING SYSTEMS. SYSTEMS TO BE INCLUDED FOR TESTING AND ADJUSTING SHALL INCLUDE, AS APPLICABLE TO THE PROJECT:

1. RENEWABLE ENERGY SYSTEMS.
2. LANDSCAPE IRRIGATION SYSTEMS.
3. WATER REUSE SYSTEMS.

SEE MEP SPECIFICATIONS.

#### 5.410.4.3 PROCEDURES.

PERFORM TESTING AND ADJUSTING PROCEDURES IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND APPLICABLE STANDARDS ON EACH SYSTEM.

SEE MEP SPECIFICATIONS.

##### 5.410.4.3.1 HVAC BALANCING.

IN ADDITION TO TESTING AND ADJUSTING, BEFORE A NEW SPACE-CONDITIONING SYSTEM SERVING A BUILDING OR SPACE IS OPERATED FOR NORMAL USE, BALANCE THE SYSTEM IN ACCORDANCE WITH THE PROCEDURES DEFINED BY THE TESTING ADJUSTING AND BALANCING BUREAU NATIONAL STANDARDS, THE AIR BALANCE ENVIRONMENTAL BALANCING BUREAU PROCEDURAL STANDARDS; ASSOCIATED AIR BALANCE COUNCIL NATIONAL STANDARDS OR AS APPROVED BY THE ENFORCING AGENCY.

SEE MEP SPECIFICATIONS.

#### 5.410.4.4 REPORTING.

AFTER COMPLETION OF TESTING, ADJUSTING AND BALANCING, PROVIDE A FINAL REPORT OF TESTING SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.

SEE MEP SPECIFICATIONS.

#### 5.410.4.5 OPERATION AND MAINTENANCE (O & M) MANUAL.

PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES/WARRANTIES FOR EACH SYSTEM. O & M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CCR, TITLE 8, SECTION 5142, AND OTHER RELATED REGULATIONS.

SEE MEP SPECIFICATIONS.

##### 5.410.4.5.1 INSPECTIONS AND REPORTS.

INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE ENFORCING AGENCY.

CONTRACTOR TO PROVIDE.

## SECTION 5.501 GENERAL

### 5.501.1 SCOPE.

THE PROVISIONS OF THIS CHAPTER SHALL OUTLINE MEANS OF REDUCING THE QUANTITY OF AIR CONTAMINANTS THAT ARE ODOROUS, IRRITATING AND/OR HARMFUL TO THE COMFORT AND WELL-BEING OF A BUILDING'S INSTALLERS, OCCUPANTS AND NEIGHBORS.

## SECTION5.503 FIREPLACES

### 5.503.1 FIREPLACES.

INSTALL ONLY A DIRECT-VENT SEALED-COMBUSTION GAS OR SEALED WOOD-BURNING FIREPLACE, OR A SEALED WOOD-STOVE OR PELLET STOVE, AND REFER TO RESIDENTIAL REQUIREMENTS IN THE CALIFORNIA ENERGY CODE, TITLE 24, PART 6, SUBCHAPTER 7, SECTION 150. WOODSTOVES, PELLET STOVES AND FIREPLACES SHALL COMPLY WITH APPLICABLE LOCAL ORDINANCES.

#### 5.503.1.1 WOODSTOVES.

WOODSTOVE AND PELLET STOVES SHALL COMPLY WITH US EPA NEW SOURCE PERFORMANCE STANDARDS (NSPS) EMISSION LIMITS AS APPLICABLE, AND SHALL HAVE A PERMANENT LABEL INDICATING THEY ARE CERTIFIED TO MEET THE EMISSION LIMITS.

N/A.

### 5.408.2 UNIVERSAL WASTE.

[A] ADDITIONS AND ALTERATIONS TO A BUILDING OR TENANT SPACE THAT MEET THE SCOPING PROVISIONS IN SECTION 301.3 FOR NONRESIDENTIAL ADDITIONS AND ALTERATIONS, SHALL REQUIRE VERIFICATION THAT UNIVERSAL WASTE ITEMS SUCH AS FLUORESCENT LAMPS AND BALLAST AND MERCURY CONTAINING THERMOSTATS AS WELL AS OTHER CALIFORNIA PROHIBITED UNIVERSAL WASTE MATERIALS ARE DISPOSED OF PROPERLY AND ARE DIVERTED FROM LANDFILLS. A LIST OF PROHIBITED UNIVERSAL WASTE MATERIALS SHALL BE INCLUDED IN THE CONSTRUCTION DOCUMENTS.
**NOTE:**
REFER TO THE UNIVERSAL WASTE RULE LINK AT: https://dtsc.ca.gov/universalwaste/

### 5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS.

100 PERCENT OF TREES, STUMPS, ROCKS AND ASSOCIATED VEGETATION AND SOILS RESULTING PRIMARILY FROM LAND CLEARING SHALL BE REUSED OR RECYCLED. FOR A PHASED PROJECT, SUCH MATERIAL MAY BE STICKPILED ON SITE UNTIL THE STORAGE SITE IS DEVELOPED.

**EXCEPTION:** REUSE, EITHER ON-OR OFF-SITE, OF VEGETATION OR SOIL CONTAMINATED BY DISEASE OR PEST INFESTATION.

**NOTES:**
1. IF CONTAMINATION BY DISEASE OR PEST INFESTATION IS SUSPECTED, CONTACT THE COUNTY AGRICULTURAL COMMISSIONER AND FOLLOW ITS DIRECTION FOR RECYCLING OR DISPOSAL OF THE MATERIAL. (www.cdfa.ca.gov/exec/county/county_contacts.html)
2. FOR A MAP OF KNOWN PEST AND/OR DISEASE QUARANTINE ZONES, CONSULT WITH THE CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE. (www.cdfa.ca.gov)

NOT APPLICABLE.

## SECTION 5.410 BUILDING MAINTENANCE AND OPERATION

### 5.410.1 RECYCLING BY OCCUPANTS.

PROVIDE READILY ACCESSIBLE AREAS THAT SERVE THE ENTIRE BUILDING AND ARE IDENTIFIED FOR THE DEPOSITING, STORAGE AND COLLECTION OF NON-HAZARDOUS MATERIALS FOR RECYCLING, INCLUDING (AT A MINIMUM) PAPER, CORRUGATED CARDBOARD, GLASS, PLASTICS, ORGANIC WASTE AND METALS, OR MEET A LAWFULLY ENACTED LOCAL RECYCLING ORDINANCE, IF MORE RESTRICTIVE.

**EXCEPTION:** RURAL JURISDICTIONS THAT MEET AND APPLY FOR THE EXEMPTION IN PUBLIC RESOURCES CODE 42649.82 (A)(2)(A) ET SEQ. SHALL ALSO BE EXEMPT FROM THE ORGANIC WASTE PORTION OF THIS SECTION.

#### 5.410.1.1 ADDITIONS.

ALL ADDITIONS CONDUCTED WITHIN A 12-MONTH PERIOD UNDER SINGLE OR MULTIPLE PERMITS, RESULTING IN AN INCREASE OF 30 PERCENT OR MORE IN FLOOR AREA, SHALL PROVIDE RECYCLING AREAS ON SITE.

**EXCEPTION:**
ADDITIONS WITHIN A TENANT SPACE RESULTING IN LESS THAN A 30-PERCENT INCREASE IN THE TENANT SPACE FLOOR AREA.

#### 5.410.1.2 SAMPLE ORDINANCE.

SPACE ALLOCATION FOR RECYCLING AREAS SHALL COMPLY WITH CHAPTER 18, PART 3, DIVISION 30 OF THE PUBLIC RESOURCES CODE. CHAPTER 18 IS KNOWN AS THE CALIFORNIA SOLID WASTE REUSE AND RECYCLING ACCESS ACT OF 1991 (ACT).

**NOTE:**
A SAMPLE ORDINANCE FOR USE BY LOCAL AGENCIES MAY BE FOUND IN APPENDIX A OF THE DOCUMENT AT THE CALRECYCLE'S WEB SITE.

SEE ARCHITECTURAL DRAWINGS.

### 5.410.2 COMMISSIONING.

**[N] NEW BUILDINGS 10,000 SQUARE FEET AND OVER**. FOR NEW BUILDINGS 10,000 SQUARE FEET AND OVER, BUILDING COMMISSIONING SHALL BE INCLUDED IN THE DESIGN AND CONSTRUCTION PROCESSES OF THE BUILDING PROJECT TO VERIFY THAT THE BUILDING SYSTEMS AND COMPONENTS MEET THE OWNER'S OR OWNER REPRESENTATIVE'S PROJECT REQUIREMENTS. COMMISSIONING SHALL BE PERFORMED IN ACCORDANCE WITH THIS SECTION BY TRAINED PERSONNEL WITH EXPERIENCE ON PROJECTS OF COMPARABLE SIZE AND COMPLEXITY. FOR I-OCCUPANCIES THAT ARE NOT REGULATED BY OSHPD OR FOR I-OCCUPANCIES AND L-OCCUPANCIES THAT ARE NOT REGULATED BY THE CALIFORNIA ENERGY CODE SECTION 100.0 SCOPE, ALL REQUIREMENTS IN SECTIONS 5.410.2 THROUGH 5.410.2.6 SHALL APPLY.

**NOTES:**
FOR ENERGY-RELATED SYSTEMS UNDER THE SCOPE (SECTION 100) OF THE CALIFORNIA ENERGY CODE, INCLUDING HEATING, VENTILATION, AIR CONDITIONING (HVAC) SYSTEMS AND CONTROLS, INDOOR LIGHTING SYSTEMS AND CONTROLS,AS WELL AS WATER HEATING SYSTEMS AND CONTROLS, REFER TO CALIFORNIA ENERGY CODE SECTION 120.8 FOR COMMISSIONING REQUIREMENTS.

COMMISSIONING REQUIREMENTS SHALL INCLUDE:
1. OWNER'S OR OWNER REPRESENTATIVE'S PROJECT REQUIREMENTS.
2. BASIS OF DESIGN.
3. COMMISSIONING MEASURES SHOWN IN THE CONSTRUCTION DOCUMENTS.
4. COMMISSIONING PLAN.
5. FUNCTIONAL PERFORMANCE TESTING.
6. DOCUMENTATION AND TRAINING.
7. COMMISSIONING REPORT.

**EXCEPTIONS:**
1. UNCONDITIONED WAREHOUSES OF ANY SIZE.
2. AREAS LESS THAN 10,000 SQUARE FEET USED FOR OFFICES OR OTHER CONDITIONED ACCESSORY SPACES WITHIN UNCONDITIONED WAREHOUSES.
3. TENANT IMPROVEMENTS LESS THAN 10,000 SQUARE FEET AS DESCRIBED IN SECTION 303.1.1.
4. OPEN PARKING GARAGES OF ANY SIZE, OR OPEN PARKING GARAGE AREAS, OF ANY SIZE, WITHIN A STRUCTURE.

**NOTE:** FOR THE PURPOSES OF THIS SECTION, UNCONDITIONED SHALL MEAN A BUILDING, AREA OR ROOM WHICH DOES NOT PROVIDE HEATING AND OR AIR CONDITIONING.

**INFORMATIONAL NOTES:**
1. IAS AC 476 IS AN ACCREDITATION CRITERIA FOR ORGANIZATIONS PROVIDING TRAINING AND/OR CERTIFICATION OF COMMISSIONING PERSONNEL. AC 476 IS AVAILABLE TO THE AUTHORITY HAVING JURISDICTION AS A REFERENCE FOR QUALIFICATIONS OF COMMISSIONING PERSONNEL. AC 476 DOES NOT CERTIFY INDIVIDUALS TO CONDUCT FUNCTIONAL PERFORMANCE TESTS OR TO ADJUST AND BALANCE SYSTEMS.
2. FUNCTIONAL PERFORMANCE TESTING FOR HEATING, VENTILATION, AIR CONDITIONING SYSTEMS AND LIGHTING CONTROLS MUST BE PERFORMED IN COMPLIANCE WITH THE *CALIFORNIA ENERGY CODE*.

NOT APPLICABLE, PER EXCEPTION #2

#### 5.410.2.1 OWNER'S OR OWNER REPRESENTATIVE'S PROJECT REQUIREMENTS (OPR).

THE EXPECTATIONS AND REQUIREMENTS OF THE BUILDING APPROPRIATE TO ITS PHASE SHALL BE DOCUMENTED BEFORE THE DESIGN PHASE OF THE PROJECT BEGINS. THIS DOCUMENTATION SHALL INCLUDE ITEMS 1 THROUGH 6 LISTED IN THIS SECTION.
[N] THE EXPECTATIONS AND REQUIREMENTS OF THE BUILDING APPROPRIATE TO ITS PHASE SHALL BE DOCUMENTED BEFORE THE DESIGN PHASE OF THE PROJECT BEGINS. THIS DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

1. ENVIRONMENTAL AND SUSTAINABILITY GOALS.
2. BUILDING SUSTAINABLE GOALS.
3. INDOOR ENVIRONMENTAL QUALITY REQUIREMENTS.
4. PROJECT PROGRAM, INCLUDING FACILITY FUNCTIONS AND HOURS OF OPERATION, AND NEED FOR AFTER HOURS OPERATION.
5. EQUIPMENT AND SYSTEMS EXPECTATIONS.
6. BUILDING OCCUPANT AND OPERATION AND MAINTENANCE (O&M) PERSONNEL EXPECTATIONS.

NOT APPLICABLE.

#### 5.410.2.2 BASIS OF DESIGN (BOD).

[N] A WRITTEN EXPLANATION OF HOW THE DESIGN OF THE BUILDING SYSTEMS MEETS THE OPR SHALL BE COMPLETED AT THE DESIGN PHASE OF THE BUILDING PROJECT. THE BASIS OF DESIGN DOCUMENT SHALL COVER THE FOLLOWING SYSTEMS:

1. RENEWABLE ENERGY SYSTEMS.
2. LANDSCAPE IRRIGATION SYSTEMS.
3. WATER REUSE SYSTEMS.

NOT APPLICABLE.

### 5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS.

FOR PUBLIC SCHOOLS AND COMMUNITY COLLEGES, LANDSCAPE PROJECTS AS DESCRIBED IN SECTIONS 5.304.6.1 AND 5.304.6.2 SHALL COMPLY WITH THE CALIFORNIA DEPARTMENT OF WATER RESOURCES MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) COMMENCING WITH SECTION 490 OF CHAPTER 2.7, DIVISION 2, TITLE 23, CALIFORNIA CODE OF REGULATIONS. EXCEPT THAT THE EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) SHALL BE 0.65 WITH AN ADDITIONAL WATER ALLOWANCE FOR SPECIAL LANDSCAPE AREAS (SLA) OF 0.35.

EXCEPTION: ANY PROJECT WITH AN AGGREGATE LANDSCAPE AREA OF 2,500 SQUARE FEET OR LESS MAY COMPLY WITH THE PRESCRIPTIVE MEASURES CONTAINED IN APPENDIX D OF THE MWELO.

#### 5.304.6.1 NEWLY CONSTRUCTED LANDSCAPES.

NEW CONSTRUCTION PROJECTS WITH AN AGGREGATE LANDSCAPE AREA EQUAL TO OR GREATER THAN 500 SQUARE FEET.

#### 5.304.6.2 REHABILITATED LANDSCAPES.

REHABILITATED LANDSCAPE PROJECTS WITH AN AGGREGATE LANDSCAPE AREA EQUAL TO OR GREATER THAN 1,200 SQUARE FEET.

## SECTION 5.305 WATER REUSE SYSTEMS (RESERVED)

# DIVISION 5.4 – MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

## SECTION 5.401 GENERAL

### 5.401.1 SCOPE.

THE PROVISIONS OF THIS CHAPTER SHALL OUTLINE MEANS OF ACHIEVING MATERIAL CONSERVATION AND RESOURCE EFFICIENCY THROUGH PROTECTION OF BUILDINGS FROM EXTERIOR MOISTURE, CONSTRUCTION WASTE DIVERSION, EMPLOYMENT OF TECHNIQUES TO REDUCE POLLUTION THROUGH RECYCLING OF MATERIALS, AND BUILDING COMMISSIONING OR TESTING AND ADJUSTING.

## SECTION 5.407 WEATHER RESISTANCE AND MOISTURE MANAGEMENT

### 5.407.1 WEATHER PROTECTION

PROVIDE A WEATHER-RESISTANT EXTERIOR WALL AND FOUNDATION ENVELOPE AS REQUIRED BY CALIFORNIA BUILDING CODE SECTION 1402.2 (WEATHER PROTECTION), MANUFACTURER'S INSTALLATION INSTRUCTIONS OR LOCAL ORDINANCE, WHICHEVER IS MORE STRINGENT.

EXISTING TO REMAIN.

### 5.407.2 MOISTURE CONTROL

EMPLOY MOISTURE CONTROL MEASURES BY THE FOLLOWING METHODS;

#### 5.407.2.1 SPRINKLERS

DESIGN AND MAINTAIN LANDSCAPE IRRIGATION SYSTEMS TO PREVENT SPRAY ON STRUCTURES.

EXISTING TO REMAIN.

#### 5.407.2.2 ENTRIES AND OPENINGS

DESIGN EXTERIOR ENTRIES AND/OR OPENINGS SUBJECT TO FOOT TRAFFIC OR WIND-DRIVEN RAIN TO PREVENT WATER INTRUSION INTO BUILDINGS AS FOLLOWS:

EXISTING TO REMAIN.

##### 5.407.2.2.1 EXTERIOR DOOR PROTECTION.

PRIMARY EXTERIOR ENTRIES SHALL BE COVERED TO PREVENT WATER INTRUSION BY USING NONABSORBENT FLOOR AND WALL FINISHES WITHIN AT LEAST 2 FEET AROUND AND PERPENDICULAR TO SUCH OPENINGS PLUS AT LEAST ONE OF THE FOLLOWING:
1. AN INSTALLED AWNING AT LEAST 4 FEET IN DEPTH.
2. THE DOOR IS PROTECTED BY A ROOF OVERHANG AT LEAST 4 FEET IN DEPTH.
3. THE DOOR IS RECESSED AT LEAST 4 FEET.
4. OTHER METHODS WHICH PROVIDE EQUIVALENT PROTECTION.

##### 5.407.2.2.2 FLASHING.

INSTALL FLASHINGS INTEGRATED WITH A DRAINAGE PLANE.

## SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

### 5.408.1 CONSTRUCTION WASTE MANAGEMENT.

RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 65% OF THE NON-HAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDANCE WITH SECTION 5.408.1.1, 5.408.1.2 OR 5.408.1.3; OR MEET LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS MORE STRINGENT.

CONTRACTOR TO DEVELOP CONSTRUCTION WASTE MANAGEMENT PLAN AND SUBMIT IT TO THE CITY FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION.

#### 5.408.1.1 CONSTRUCTION WASTE MANAGEMENT PLAN.

WHERE A LOCAL JURISDICTION DOES NOT HAVE A CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE THAT IS MORE STRINGENT, SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN THAT

1. IDENTIFIES THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL BY EFFICIENT USAGE, RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE.
2. DETERMINES IF CONSTRUCTION AND DEMOLITION WASTE MATERIALS WILL BE SORTED ON-SITE (SOURCE-SEPARATED) OR BULK MIXED (SINGLE STREAM).
3. IDENTIFIES DIVERSION FACILITIES WHERE CONSTRUCTION AND DEMOLITION WASTE MATERIAL COLLECTED WILL BE TAKEN.
4. SPECIFIES THAT THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE MATERIALS DIVERTED SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BY BOTH.

CONTRACTOR TO DEVELOP CONSTRUCTION WASTE MANAGEMENT PLAN AND SUBMIT IT TO THE CITY FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION.

#### 5.408.1.2 WASTE MANAGEMENT COMPANY.

UTILIZE A WASTE MANAGEMENT COMPANY THAT CAN PROVIDE VERIFIABLE DOCUMENTATION THAT THE PERCENTAGE OF CONSTRUCTION AND DEMOLITION WASTE MATERIAL DIVERTED FROM THE LANDFILL COMPLIES WITH THIS SECTION

**NOTE:** THE OWNER OR CONTRACTOR SHALL MAKE THE DETERMINATION IF THE CONSTRUCTION AND DEMOLITION WASTE MATERIAL WILL BE DIVERTED BY A WASTE MANAGEMENT COMPANY.

**EXCEPTIONS TO** SECTION 5.408.1.1 AND 5.4081.2:

1. EXCAVATED SOIL AND LAND-CLEARING DEBRIS
2. ALTERNATE WASTE REDUCTION METHODS DEVELOPED BY WORKING WITH LOCAL AGENCIES IF DIVERSION OR RECYCLE FACILITIES CAPABLE OF COMPLIANCE WITH THIS ITEM DO NOT EXIST.
3. DEMOLITION WASTE MEETING LOCAL ORDINANCE OR CALCULATED IN CONSIDERATION OF LOCAL RECYCLING FACILITIES AND MARKETS.

CONTRACTOR TO DEVELOP CONSTRUCTION WASTE MANAGEMENT PLAN AND SUBMIT IT TO THE CITY FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION.

#### 5.408.1.3 WASTE STREAM REDUCTION ALTERNATIVE.

THE COMBINED WEIGHT OF NEW CONSTRUCTION DISPOSAL THAT DOES NOT EXCEED TWO POUNDS PER SQUARE FOOT OF BUILDING AREA MAY BE DEEMED TO MEET THE 65 PERCENT MINIMUM REQUIREMENT AS APPROVED BY THE ENFORCING AGENCY.

CONTRACTOR TO DEVELOP CONSTRUCTION WASTE MANAGEMENT PLAN AND SUBMIT IT TO THE CITY FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION.

#### 5.408.1.4 DOCUMENTATION.

DOCUMENTATION SHALL BE PROVIDED TO THE ENFORCING AGENCY WHICH DEMONSTRATES COMPLIANCE WITH SECTIONS 5.408.1.1 THROUGH 5.408.1.3. THE WASTE MANAGEMENT PLAN SHALL BE UPDATED AS NECESSARY AND SHALL BE ACCESSIBLE DURING CONSTRUCTION FOR EXAMINATION BY THE ENFORCING AGENCY.
**NOTES:**
1. SAMPLE FORMS FOUND IN "A GUIDE TO THE CALIFORNIA GREEN BUILDING STANDARDS CODE (NONRESIDENTIAL)" LOCATED AT https://www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-CommissionResources-List-Folder/CALGreen MAY BE USED TO ASSIST IN DOCUMENTING COMPLIANCE WITH THE WASTE MANAGEMENT PLAN.
2. MIXED CONSTRUCTION AND DEMOLITION DEBRIS (C&D) PROCESSORS CAN BE LOCATED AT THE CALIFORNIA DEPARTMENT OF RESOURCES RECYCLING AND RECOVERY (CALRECYCLE).

CONTRACTOR TO DEVELOP CONSTRUCTION WASTE MANAGEMENT PLAN AND SUBMIT IT TO THE CITY FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION.

### 5.303.1.2 EXCESS CONSUMPTION.

A SEPARATE SUBMETER OR METERING DEVICE SHALL BE PROVIDED FOR ANY TENANT WITHIN A BUILDING OR WITHIN AN ADDITION THAT IS PROJECTED TO CONSUME MORE THAN 1,000 GAL/DAY.

NOT APPLICABLE.

## 5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS

PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE FOLLOWING:

#### 5.303.3.1 WATER CLOSETS.

THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK-TYPE TOILETS.

**NOTE:** THE EFFECTIVE FLUSH VOLUME OF DUAL FLUSH TOILETS IS DEFINED AS THE COMPOSITE, AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH.

SEE PLUMBING DRAWINGS.

#### 5.303.3.2 URINALS.

##### 5.303.3.2.1 WALL-MOUNTED URINALS.

THE EFFECTIVE FLUSH VOLUME OF WALL-MOUNTED URINALS SHALL NOT EXCEED 0.125 GALLONS PER FLUSH

##### 5.303.3.2.2 FLOOR-MOUNTED URINALS.

THE EFFECTIVE FLUSH VOLUME OF ALL FLOOR-MOUNTED URINALS SHALL NOT EXCEED 0.5 GALLONS PER FLUSH.

SEE PLUMBING DRAWINGS.

#### 5.303.3.3 SHOWERHEADS.

##### 5.303.3.3.1 SINGLE SHOWERHEADS.

SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 80 PSI. SHOWERHEADS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR SHOWERHEADS.

##### 5.303.3.3.2 MULTIPLE SHOWERHEADS SERVING ONE SHOWER.

WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL SHOWERHEADS AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 80 PSI, OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME.

**NOTE:** A HAND-HELD SHOWER SHALL BE CONSIDERED A SHOWERHEAD.

NOT APPLICABLE.

#### 5.303.3.4 FAUCETS AND FOUNTAINS.

##### 5.303.3.4.1 NONRESIDENTIAL LAVATORY FAUCETS.

LAVATORY FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 0.5 GALLONS PER MINUTE AT 60 PSI.

##### 5.303.3.4.2 KITCHEN FAUCETS.

KITCHEN FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 60PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI.

##### 5.303.3.4.3 WASH FOUNTAINS.

WASH FOUNTAINS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE/20 [RIM SPACE (INCHES) AT 60 PSI].

##### 5.303.3.4.4 METERING FAUCETS

METERING FAUCETS SHALL NOT DELIVER MORE THAN 0.20 GALLONS PER CYCLE.

##### 5.303.3.4.5 METERING FAUCETS FOR WASH FOUNTAINS

METERING FAUCETS FOR WASH FOUNTAINS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 0.20 GALLONS PER CYCLE//20 [RIM SPACE (INCHES) AT 60 PSI].

**NOTE:**
WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION.

##### 5.303.3.4.6 PRE-RINSE SPRAY VALVE.

WHEN INSTALLED, SHALL MEET THE REQUIREMENTS IN THE CALIFORNIA CODE OF REGULATIONS, TITLE 20 (APPLIANCE EFFICIENCY REGULATIONS), SECTION 1605.1(H)(4) TABLE H-2, SECTION 1605.3(H)(4)(A), AND SECTION 1607(D)(7), AND SHALL BE EQUIPPED WITH AN INTEGRAL AUTOMATIC SHUTOFF.

FOR REFERENCE ONLY: THE FOLLOWING TABLE AND CODE SECTION HAVE BEEN REPRINTED FROM THE CALIFORNIA CODE OF REGULATIONS, TITLE 20 (APPLIANCE EFFICIENCY REGULATIONS), SECTION 1605.1 (H)(4) AND SECTIONS 1605.3 (H)(4)(A).

TABLE H2
STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALVES MANUFACTURED ON OR AFTER JANUARY 28, 2019

| PRODUCT CLASS [SPRAY FORCE IN OUNCE FORCE (OZF)] | MAXIMUM FLOW RATE (GPM) |
|---|---|
| PRODUCT CLASS 1 (≤ 5.0 OZF) | 1.00 |
| PRODUCT CLASS 2 (> 5.0 OZF AND ≤ 8.0 OZF) | 1.20 |
| PRODUCT CLASS 1 (> 8.0 OZF) | 1.28 |

TITLE 20 SECTION 1605.3(H)(4)(A): COMMERCIAL PRE-RINSE SPRAY VALVES MANUFACTURED ON OR AFTER JANUARY 1, 2006, SHALL HAVE A MINIMUM SPRAY FORCE OF NOT LESS THAN 4.0 OUNCES-FORCE (OZF) [113 GRAMS-FORCE (GF)].

### 5.303.4 COMMERCIAL K

CAUTION: IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT

# 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE - NONRESIDENTIAL MANDATORY MEASURES

5.508.2.6 EVACUATION.

THE SYSTEM SHALL BE EVACUATED AFTER PRESSURE TESTING AND PRIOR TO CHARGING.

5.508.2.6.1 FIRST VACUUM.

PULL A SYSTEM VACUUM DOWN TO AT LEAST 1000 MICRONS (+/- 50 MICRONS), AND HOLD FOR 30 MINUTES.

5.508.2.6.2 SECOND VACUUM.

PULL A SECOND SYSTEM VACUUM TO A MINIMUM OF 500 MICRONS AND HOLD FOR 30 MINUTES.

5.508.2.6.3 THIRD VACUUM.

PULL A THIRD VACUUM DOWN TO A MINIMUM OF 300 MICRONS, AND HOLD FOR 24 HOURS WITH A MAXIMUM DRIFT OF 100 MICRONS OVER A 24-HOUR PERIOD.

## CHAPTER 7
## INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

SECTION 702 QUALIFICATIONS

702.1 INSTALLER TRAINING.

HVAC SYSTEM INSTALLERS SHALL BE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS INCLUDING DUCTS AND EQUIPMENT BY A NATIONALLY OR REGIONALLY RECOGNIZED TRAINING OR CERTIFICATION PROGRAM. UNCERTIFIED PERSONS MAY PERFORM HVAC INSTALLATIONS WHEN UNDER THE DIRECT SUPERVISION AND RESPONSIBILITY OF A PERSON TRAINED AND CERTIFIED TO INSTALL HVAC SYSTEMS OR CONTRACTOR LICENSED TO INSTALL HVAC SYSTEMS. EXAMPLES OF ACCEPTABLE HVAC TRAINING AND CERTIFICATION PROGRAMS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

1. STATE CERTIFIED APPRENTICESHIP PROGRAMS.
2. PUBLIC UTILITY TRAINING PROGRAMS.
3. TRAINING PROGRAMS SPONSORED BY TRADE, LABOR OR STATEWIDE ENERGY CONSULTING OR VERIFICATION ORGANIZATIONS.
4. PROGRAMS SPONSORED BY MANUFACTURING ORGANIZATIONS.
5. OTHER PROGRAMS ACCEPTABLE TO THE ENFORCING AGENCY.

702.2 SPECIAL INSPECTION [HCD].

[HCD] WHEN REQUIRED BY THE ENFORCING AGENCY, THE OWNER OR THE RESPONSIBLE ENTITY ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTION OR OTHER DUTIES NECESSARY TO SUBSTANTIATE COMPLIANCE WITH THIS CODE. SPECIAL INSPECTORS SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE ENFORCING AGENCY FOR THE PARTICULAR TYPE OF INSPECTION OR TASK TO BE PERFORMED. IN ADDITION TO OTHER CERTIFICATIONS OR QUALIFICATIONS ACCEPTABLE TO THE ENFORCING AGENCY, THE FOLLOWING CERTIFICATIONS OR EDUCATION MAY BE CONSIDERED BY THE ENFORCING AGENCY WHEN EVALUATING THE QUALIFICATIONS OF A SPECIAL INSPECTOR:

1. CERTIFICATION BY A NATIONAL OR REGIONAL GREEN BUILDING PROGRAM OR STANDARD PUBLISHER.
2. CERTIFICATION BY A STATEWIDE ENERGY CONSULTING OR VERIFICATION ORGANIZATION, SUCH AS HERS RATERS, BUILDING PERFORMANCE CONTRACTORS AND HOME ENERGY AUDITORS.
3. SUCCESSFUL COMPLETION OF A THIRD PARTY APPRENTICE TRAINING PROGRAM IN THE APPROPRIATE TRADE.
4. OTHER PROGRAMS ACCEPTABLE TO THE ENFORCING AGENCY.

**NOTES:**
1. SPECIAL INSPECTORS SHALL BE INDEPENDENT ENTITIES WITH NO FINANCIAL INTEREST IN THE MATERIALS OR THE PROJECT THEY ARE INSPECTING FOR COMPLIANCE WITH THIS CODE.
2. HERS RATERS ARE SPECIAL INSPECTORS CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION (CEC) TO RATE HOMES IN CALIFORNIA ACCORDING TO THE HOME ENERGY RATING SYSTEM (HERS).

[BSC-CG] WHEN REQUIRED BY THE ENFORCING AGENCY, THE OWNER OR THE RESPONSIBLE ENTITY ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTION OR OTHER DUTIES NECESSARY TO SUBSTANTIATE COMPLIANCE WITH THIS CODE. SPECIAL INSPECTORS SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE ENFORCING AGENCY FOR THE PARTICULAR TYPE OF INSPECTION OR TASK TO BE PERFORMED. IN ADDITION, THE SPECIAL INSPECTOR SHALL HAVE A CERTIFICATION FROM A RECOGNIZED STATE, NATIONAL OR INTERNATIONAL ASSOCIATION, AS DETERMINED BY THE LOCAL AGENCY. THE AREA OF CERTIFICATION SHALL BE CLOSELY RELATED TO THE PRIMARY JOB FUNCTION, AS DETERMINED BY THE LOCAL AGENCY.

**NOTE:** SPECIAL INSPECTORS SHALL BE INDEPENDENT ENTITIES WITH NO FINANCIAL INTEREST IN THE MATERIALS OR THE PROJECT THEY ARE INSPECTING FOR COMPLIANCE WITH THIS CODE.

SECTION 703 VERIFICATIONS

703.1 DOCUMENTATION.

DOCUMENTATION USED TO SHOW COMPLIANCE WITH THIS CODE SHALL INCLUDE BUT IS NOT LIMITED TO, CONSTRUCTION DOCUMENTS, PLANS, SPECIFICATIONS, BUILDER OR INSTALLER CERTIFICATION, INSPECTION REPORTS OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY WHICH DEMONSTRATE SUBSTANTIAL CONFORMANCE. WHEN SPECIFIC DOCUMENTATION OR SPECIAL INSPECTION IS NECESSARY TO VERIFY COMPLIANCE, THAT METHOD OF COMPLIANCE WILL BE SPECIFIED IN THE APPROPRIATE SECTION OR IDENTIFIED IN THE APPLICATION CHECKLIST.

5.507.4.1.1 NOISE EXPOSURE WHERE NOISE CONTOURS ARE NOT READILY AVAILABLE

BUILDINGS EXPOSED TO A NOISE LEVEL OF 65 DB LEQ-1-HR DURING ANY HOUR OF OPERATION SHALL HAVE BUILDING, ADDITION OR ALTERATION EXTERIOR WALL AND ROOF-CEILING ASSEMBLIES EXPOSED TO THE NOISE SOURCE MEETING A COMPOSITE STC RATING OF AT LEAST 45 (OR OITC 35), WITH EXTERIOR WINDOWS OF A MINIMUM STC OF 40 (OR OITC 30).

EXISTING TO REMAIN.

5.507.4.2 PERFORMANCE METHOD

FOR BUILDINGS LOCATED AS DEFINED IN SECTION 5.507.4.1 OR 5.507.4.1.1, WALL AND ROOF-CEILING ASSEMBLIES EXPOSED TO THE NOISE SOURCE MAKING UP THE BUILDING OR ADDITION ENVELOPE OR ALTERED ENVELOPE SHALL BE CONSTRUCTED TO PROVIDE AN INTERIOR NOISE ENVIRONMENT ATTRIBUTABLE TO EXTERIOR SOURCES THAT DOES NOT EXCEED AN HOURLY EQUIVALENT NOISE LEVEL (L eq - 1-Hr) OF 50 DBA IN OCCUPIED AREAS DURING ANY HOUR OF OPERATION.

5.507.4.2.1 SITE FEATURES

EXTERIOR FEATURES SUCH AS SOUND WALLS OR EARTH BERMS MAY BE UTILIZED AS APPROPRIATE TO THE BUILDING, ADDITION OR ALTERATION PROJECT TO MITIGATE SOUND MIGRATION TO THE NTERIOR.

NOT APPLICALBE. EXISTING TO REMAIN.

5.507.4.2.2 DOCUMENTATION OF COMPLIANCE

AN ACOUSTICAL ANALYSIS DOCUMENTING COMPLYING INTERIOR SOUND LEVELS SHALL BE PREPARED BY PERSONNEL APPROVED BY THE ARCHITECT OR ENGINEER OF RECORD.

NOT APPLICALBE.

5.507.4.3 INTERIOR SOUND TRANSMISSION

WALL AND FLOOR-CEILING ASSEMBLIES SEPARATING TENANT SPACES AND TENANT SPACES AND PUBLIC PLACES SHALL HAVE AN STC OF AT LEAST 40.
**NOTE:** EXAMPLES OF ASSEMBLIES AND THEIR VARIOUS STC RATINGS MAY BE FOUND AT THE CALIFORNIA OFFICE OF NOISE CONTROL:
HTTP://WWW.TOOLBASE.ORG/PDF/CASESTUDIES/STC_ICC_RATINGS.PDF.

SEE ARCHITECTURAL DRAWINGS.

SECTION 5.508 OUTDOOR AIR QUALITY

5.508.1 OZONE DEPLETION AND GREENHOUSE GAS REDUCTIONS.

INSTALLATIONS OF HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL COMPLY WITH SECTIONS 5.508.1.1 AND 5.508.1.2.

SEE MECHANICAL DRAWINGS.

5.508.1.1 CHLOROFLUOROCARBONS (CFCs).

INSTALL HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN CFCS.

SEE MECHANICAL DRAWINGS.

5.508.1.2 HALONS.

INSTALL HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN HALONS.

NOT APPLICABLE.

5.508.2 SUPERMARKET REFRIGERANT LEAK REDUCTION.

NEW COMMERCIAL REFRIGERATION SYSTEMS SHALL COMPLY WITH THE PROVISIONS OF THIS SECTION WHEN INSTALLED IN RETAIL FOOD STORES 8,000 SQUARE FEET OR MORE CONDITIONED AREA, AND THAT UTILIZE EITHER REFRIGERATED DISPLAY CASES, OR WALK- IN COOLERS OR FREEZERS CONNECTED TO REMOTE COMPRESSOR UNITS OR CONDENSING UNITS. THE LEAK REDUCTION MEASURES APPLY TO REFRIGERATION SYSTEMS CONTAINING HIGH-GLOBAL-WARMING POTENTIAL (HIGH-GWP) REFRIGERANTS WITH A GWP OF 150 OR GREATER. NEW REFRIGERATION SYSTEMS INCLUDE BOTH NEW FACILITIES AND THE REPLACEMENT OF EXISTING REFRIGERATION SYSTEMS IN EXISTING FACILITIES.

**EXCEPTION:** REFRIGERATION SYSTEMS CONTAINING LOW-GLOBAL WARMING POTENTIAL (LOW-GWP) REFRIGERANT WITH A GWP VALUE LESS THAN 150 ARE NOT SUBJECT TO THIS SECTION. LOW-GWP REFRIGERANTS ARE NONOZONE-DEPLETING REFRIGERANTS THAT INCLUDE AMMONIA, CARBON DIOXIDE (CO2), AND POTENTIALLY OTHER REFRIGERANTS.

NOT APPLICABLE.

5.508.2.1 REFRIGERANT PIPING.

PIPING COMPLIANT WITH THE CALIFORNIA MECHANICAL CODE SHALL BE INSTALLED TO BE ACCESSIBLE FOR LEAK PROTECTION AND REPAIRS. PIPING RUNS USING THREADED PIPE, COPPER TUBING WITH AN OUTSIDE DIAMETER (OD) LESS THAN 1/4 INCH, FLARED TUBING CONNECTIONS AND SHORT RADIUS ELBOWS SHALL NOT BE USED IN REFRIGERANT SYSTEMS EXCEPT AS NOTED BELOW.

5.508.2.1.1 THREADED PIPE.

THREADED CONNECTIONS ARE PERMITTED AT THE COMPRESSOR RACK.

5.508.2.1.2 COPPER PIPE.

COPPER TUBING WITH AN OD LESS THAN 1/4 INCH MAY BE USED IN SYSTEMS WITH A REFRIGERANT CHARGE OF 5 POUNDS OR LESS.

5.508.2.1.2.1 ANCHORAGE.

ONE-FOURTH-INCH OD TUBING SHALL BE SECURELY CLAMPED TO A RIGID BASE TO KEEP VIBRATION LEVELS BELOW 8 MILS.

5.508.2.1.3 FLARED TUBING CONNECTIONS.

DOUBLE-FLARED TUBING CONNECTIONS MAY BE USED FOR PRESSURE CONTROLS, VALVE PILOT LINES AND OIL.

**EXCEPTION:** SINGLE-FLARED TUBING CONNECTIONS MAY BE USED WITH A MULTIRING SEAL COATED WITH INDUSTRIAL SEALANT SUITABLE FOR USE WITH REFRIGERANTS AND TIGHTENED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

5.508.2.1.4 ELBOWS.

SHORT RADIUS ELBOWS ARE ONLY PERMITTED WHERE SPACE LIMITATIONS PROHIBIT USE OF LONG RADIUS ELBOWS.

5.508.2.2 VALVES.

VALVES AND FITTINGS SHALL COMPLY WITH THE CALIFORNIA MECHANICAL CODE AND AS FOLLOWS.

5.508.2.2.1 PRESSURE RELIEF VALVES.

FOR VESSELS CONTAINING HIGH-GWP REFRIGERANT, A RUPTURE DISC SHALL BE INSTALLED BETWEEN THE OUTLET OF THE VESSEL AND THE INLET OF THE PRESSURE RELIEF VALVE.

5.508.2.2.1.1 PRESSURE DETECTION.

A PRESSURE GAUGE, PRESSURE TRANSDUCER OR OTHER DEVICE SHALL BE INSTALLED IN THE SPACE BETWEEN THE RUPTURE DISC AND THE RELIEF VALVE INLET TO INDICATE A DISC RUPTURE OR DISCHARGE OF THE RELIEF VALVE.

5.508.2.2.2 ACCESS VALVES.

ONLY SCHRADER ACCESS VALVES WITH A BRASS OR STEEL BODY ARE PERMITTED FOR USE.

5.508.2.2.2.1 VALVE CAPS.

FOR SYSTEMS WITH A REFRIGERANT CHARGE OF 5 POUNDS OR MORE, VALVE CAPS SHALL BE BRASS OR STEEL AND NOT PLASTIC.

5.508.2.2.2.2 SEAL CAPS.

IF DESIGNED FOR IT, THE CAP SHALL HAVE A NEOPRENE O-RING IN PLACE.

5.508.2.2.2.2.1 CHAIN TETHERS.

CHAIN TETHERS TO FIT OVER THE STEM ARE REQUIRED FOR VALVES DESIGNED TO HAVE SEAL CAPS.

**EXCEPTION:** VALVES WITH SEAL CAPS THAT ARE NOT REMOVED FROM THE VALVE DURING STEM OPERATION.

5.508.2.3 REFRIGERATED SERVICE CASES.

REFRIGERATED SERVICE CASES HOLDING FOOD PRODUCTS CONTAINING VINEGAR AND SALT SHALL HAVE EVAPORATOR COILS OF CORROSION-RESISTANT MATERIAL, SUCH AS STAINLESS STEEL, OR BE COATED TO PREVENT CORROSION FROM THESE SUBSTANCES.

5.508.2.3.1 COIL COATING.

CONSIDERATION SHALL BE GIVEN TO THE HEAT TRANSFER EFFICIENCY OF COIL COATING TO MAXIMIZE ENERGY EFFICIENCY.

5.508.2.4 REFRIGERANT RECEIVERS.

REFRIGERANT RECEIVERS WITH CAPACITIES GREATER THAN 200 POUNDS SHALL BE FITTED WITH A DEVICE THAT INDICATES THE LEVEL OF REFRIGERANT IN THE RECEIVER.

5.508.2.5 PRESSURE TESTING.

THE SYSTEM SHALL BE PRESSURE TESTED DURING INSTALLATION PRIOR TO EVACUATION AND CHARGING.

5.508.2.5.1 MINIMUM PRESSURE.

THE SYSTEM SHALL BE CHARGED WITH REGULATED DRY NITROGEN AND APPROPRIATE TRACER GAS TO BRING SYSTEM PRESSURE UP TO 300 PSIG MINIMUM.

5.508.2.5.2 LEAKS.

CHECK THE SYSTEM FOR LEAKS, REPAIR ANY LEAKS AND RETEST FOR PRESSURE USING THE SAME GAUGE.

5.508.2.5.3 ALLOWABLE PRESSURE CHANGE.

THE SYSTEM SHALL STAND, UNALTERED, FOR 24 HOURS WITH NO MORE THAN A +/- ONE POUND PRESSURE CHANGE FROM 300 PSIG, MEASURED WITH THE SAME GAUGE.

5.504.4.6.1 VERIFICATION OF COMPLIANCE.

DOCUMENTATION SHALL BE PROVIDED VERIFYING THAT RESILIENT FLOORING MATERIALS MEET THE POLLUTANT EMISSION LIMITS.

SEE SPECIFICATIONS.

5.504.4.7 THERMAL INSULATION.

COMPLY WITH THE REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.2, JANUARY 2017 (EMISSION TESTING METHOD FOR CALIFORNIA SPECIFICATION 01350).

SEE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH'S WEBSITE FOR CERTIFICATION PROGRAMS AND TESTING LABS.

https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx# material

5.504.4.7.1 VERIFICATION OF COMPLIANCE.

DOCUMENTATION SHALL BE PROVIDED VERIFYING THAT THERMAL INSULATION MATERIALS MEET THE POLLUTANT EMISSION LIMITS.

5.504.4. 8 ACOUSTICAL CEILINGS AND WALL PANELS.

COMPLY WITH THE REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.2, JANUARY 2017 (EMISSION TESTING METHOD FOR CALIFORNIA SPECIFICATION 01350).

SEE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH'S WEBSITE FOR CERTIFICATION PROGRAMS AND TESTING LABS.

https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx# material

5.504.4.8.1 VERIFICATION OF COMPLIANCE.

DOCUMENTATION SHALL BE PROVIDED VERIFYING THAT ACOUSTICAL FINISH MATERIALS MEET THE POLLUTANT EMISSION LIMITS.

5.504.5.3 FILTERS.

IN MECHANICALLY VENTILATED BUILDINGS, PROVIDE REGULARLY OCCUPIED AREAS OF THE BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR THAT PROVIDES AT LEAST A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 13. MERV 13 FILTERS SHALL BE INSTALLED PRIOR TO OCCUPANCY, AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL.

**EXCEPTION:** EXISTING MECHANICAL EQUIPMENT.

SEE MECHANICAL DRAWINGS.

5.504.5.3.1 LABELING.

INSTALLED FILTERS SHALL BE CLEARLY LABELED BY THE MANUFACTURER INDICATING THE MERV RATING.

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL.

WHERE OUTDOOR AREAS ARE PROVIDED FOR SMOKING, PROHIBIT SMOKING WITHIN 25 FEET OF BUILDING ENTRIES, OUTDOOR AIR INTAKES AND OPERABLE WINDOWS AND WITHIN THE BUILDING AS ALREADY PROHIBITED BY OTHER LAWS OR REGULATIONS; OR AS ENFORCED BY ORDINANCES, REGULATIONS OR POLICIES OF ANY CITY, COUNTY, CITY AND COUNTY, CALIFORNIA COMMUNITY COLLEGE, CAMPUS OF THE CALIFORNIA STATE UNIVERSITY, OR CAMPUS OF THE UNIVERSITY OF CALIFORNIA, WHICHEVER ARE MORE STRINGENT, WHEN ORDINANCES, REGULATIONS OR POLICIES ARE NOT IN PLACE, POST SIGNAGE TO INFORM BUILDING OCCUPANTS OF THE PROHIBITATIONS.

NOT APPLICABLE. NO OUTDOOR SMOKING AREAS ON SITE.

SECTION 5.505 INDOOR MOISTURE CONTROL

5.505.1 INDOOR MOISTURE CONTROL

BUILDINGS SHALL MEET OR EXCEED THE PROVISIONS OF CALIFORNIA BUILDING CODE, CCR, TITLE 24, PART 2, SECTIONS 1202 (VENTILATION) AND CHAPTER 14 (EXTERIOR WALLS). FOR ADDITIONAL MEASURES, SEE SECTION 5.407.2 OF THIS CODE.

EXISTING TO REMAIN.

SECTION 5.506 INDOOR AIR QUALITY

5.506.1 OUTSIDE AIR DELIVERY.

FOR MECHANICALLY OR NATURALLY VENTILATED SPACES IN BUILDINGS, MEET THE MINIMUM REQUIREMENTS OF SECTION 120.1 (REQUIREMENTS FOR VENTILATION) OF THE CALIFORNIA ENERGY CODE, OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT, AND DIVISION 1, CHAPTER 4 OF CCR, TITLE 8.

SEE MECHANICAL DRAWINGS.

5.506.2 CARBON DIOXIDE (CO2) MONITORING.

FOR BUILDINGS OR ADDITIONS EQUIPPED WITH DEMAND CONTROL VENTILATION, CO2 SENSORS AND VENTILATION CONTROLS SHALL BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALIFORNIA ENERGY CODE, SECTION 120.1(c)(4).

SEE MECHANICAL DRAWINGS.

5.506.3 CARBON DIOXIDE (CO2) MONITORING IN CLASSROOMS.

**(DSA-SS)** EACH PUBLIC K-12 SCHOOL CLASSROOM, AS LISTED IN TABLE 120.1-A OF THE CALIFORNIA ENERGY CODE, SHALL BE EQUIPPED WITH A CARBON DIOXIDE MONITOR OR SENSOR THAT MEETS THE FOLLOWING REQUIREMENTS:

1. THE MONITOR OR SENSOR SHALL BE PERMANENTLY AFFIXED IN A TAMPER-PROOF MANNER IN EACH CLASSROOM BETWEEN 3 AND 6 FEET (914 MM AND 1829 MM) ABOVE THE FLOOR AND AT LEAST 5 FEET (1524 MM) AWAY FROM DOORS AND OPERABLE WINDOWS.
2. WHEN THE MONITOR OR SENSOR IS NOT INTEGRAL TO AN ENERGY MANAGEMENT CONTROL SYSTEM (EMCS), THE MONITOR OR SENSOR SHALL DISPLAY THE CARBON DIOXIDE READINGS ON THE DEVICE. WHEN THE SENSOR IS INTEGRAL TO AN EMCS, THE CARBON DIOXIDE READINGS SHALL BE AVAILABLE TO AND REGULARLY MONITORED BY FACILITY PERSONNEL.
3. A MONITOR SHALL PROVIDE NOTIFICATION THROUGH A VISUAL INDICATOR ON THE MONITOR WHEN THE CARBON DIOXIDE LEVELS IN THE CLASSROOM HAVE EXCEEDED 1,100 PPM. A SENSOR INTEGRAL TO AN EMCS SHALL PROVIDE NOTIFICATION TO FACILITY PERSONNEL THROUGH A VISUAL AND/OR AUDIBLE INDICATOR WHEN THE CARBON DIOXIDE LEVELS IN THE CLASSROOM HAVE EXCEEDED 1,100 PPM.
4. THE MONITOR OR SENSOR SHALL MEASURE CARBON DIOXIDE LEVELS AT MINIMUM 15- MINUTE INTERVALS AND SHALL MAINTAIN A RECORD OF PREVIOUS CARBON DIOXIDE MEASUREMENTS OF NOT LESS THAN 30 DAYS DURATION.
5. THE MONITOR OR SENSOR USED TO MEASURE CARBON DIOXIDE LEVELS SHALL HAVE THE CAPACITY TO MEASURE CARBON DIOXIDE LEVELS WITH A RANGE OF 400 PPM TO 2000 PPM OR GREATER.
6. THE MONITOR OR SENSOR SHALL BE CERTIFIED BY THE MANUFACTURER TO BE ACCURATE WITHIN 75 PPM AT 1,000 PPM CARBON DIOXIDE CONCENTRATION AND SHALL BE CERTIFIED BY THE MANUFACTURER TO REQUIRE CALIBRATION NO MORE FREQUENTLY THAN ONCE EVERY 5 YEARS.

SECTION 5.507 ENVIRONMENTAL COMFORT

5.507.4 ACOUSTICAL CONTROL

EMPLOY BUILDING ASSEMBLIES AND COMPONENTS WITH SOUND TRANSMISSION CLASS (STC) VALUES DETERMINED IN ACCORDANCE WITH ASTM E 90 AND ASTM E 413 OR OUTDOOR-INDOOR SOUND TRANSMISSION CLASS (OITC) DETERMINED IN ACCORDANCE WITH ASTM E 1332, USING EITHER THE PRESCRIPTIVE OR PERFORMANCE METHOD IN SECTION 5.507.4.1 OR 5.507.4.2.

**EXCEPTION:** BUILDINGS WITH FEW OR NO OCCUPANTS OR WHERE OCCUPANTS ARE NOT LIKELY TO BE AFFECTED BY EXTERIOR NOISE, AS DETERMINED BY THE ENFORCEMENT AUTHORITY, SUCH AS FACTORIES, STADIUMS, STORAGE, ENCLOSED PARKING STRUCTURES AND UTILITY BUILDINGS.

**EXCEPTION: [DSA-SS]** FOR PUBLIC SCHOOLS AND COMMUNITY COLLEGES, THE REQUIREMENTS OF THIS SECTION AND ALL SUBSECTIONS APPLY ONLY TO NEW CONSTRUCTION.

SEE ARCHITECTURAL DRAWINGS.

5.507.4.1 EXTERIOR NOISE TRANSMISSION, PRESCRIPTIVE METHOD

WALL AND ROOF-CEILING ASSEMBLIES EXPOSED TO THE NOISE SOURCE MAKING UP THE BUILDING OR ADDITION ENVELOPE OR ALTERED ENVELOPE SHALL MEET A COMPOSITE STC RATING OF AT LEAST 50 OR A COMPOSITE OITC RATING OF NO LESS THAN 40, WITH EXTERIOR WINDOWS OF A MINIMUM STC OF 40 OR OITC OF 30 IN THE FOLLOWING LOCATIONS:

1. WITHIN THE 65 CNEL NOISE CONTOUR OF AN AIRPORT.

**EXCEPTIONS:**
1. LDN OR CNEL FOR MILITARY AIRPORTS SHALL BE DETERMINED BY THE FACILITY AIR INSTALLATION COMPATIBLE LAND USE ZONE (AICUZ) PLAN.
2. LDN OR CNEL FOR OTHER AIRPORTS AND HELIPORTS FOR WHICH A LAND USE PLAN HAS NOT BEEN DEVELOPED SHALL BE DETERMINED BY THE LOCAL GENERAL PLAN NOISE ELEMENT.

2. WITHIN THE 65 CNEL OR LDN NOISE CONTOUR OF A FREEWAY OR EXPRESSWAY, RAILROAD, INDUSTRIAL SOURCE OR FIXED-GUIDEWAY SOURCE AS DETERMINED BY THE NOISE ELEMENT OF THE GENERAL PLAN.

EXISTING TO REMAIN.

TABLE 5.504.4.3 [2,3]
VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS
GRAMS OF VOC PER LITER OF COATING, LESS WATER AND LESS EXEMPT COMPOUNDS

| COATING CATEGORY | CURRENT VOC LIMIT |
|---|---|
| FLAT COATINGS | 50 |
| NONFLAT COATINGS | 100 |
| NONFLAT HIGH GLOSS COATINGS | 150 |
| **SPECIALTY COATINGS** | |
| ALUMINUM ROOF COATINGS | 400 |
| BASEMENT SPECIALITY COATINGS | 400 |
| BITUMINOUS ROOF COATINGS | 50 |
| BITUMINOUS ROOF PRIMERS | 350 |
| BOND BREAKERS | 350 |
| CONCRETE CURING COMPOUNDS | 350 |
| CONCRETE/ MASONARY SEALERS | 100 |
| DRIVEWAY SEALERS | 50 |
| DRY FOG COATINGS | 150 |
| FAUX FINISHING COATINGS | 350 |
| FIRE RESISTIVE COATINGS | 350 |
| FLOOR COATINGS | 100 |
| FORM-RELEASE COMPOUNDS | 250 |
| GRAPHIC ART COATINGS (SIGN PAINTS) | 500 |
| HIGH-TEMPERATURE COATINGS | 420 |
| INDUSTRIAL MAINTENANCE COATINGS | 250 |
| LOW SOLIDS COATINGS [1] | 120 |
| MAGNESITE CEMENT COATINGS | 450 |
| MASTIC TEXTURE COATINGS | 100 |
| METALLIC PIGMENTED COATINGS | 500 |
| MULTICOLORS COATINGS | 250 |
| PRETREATMENT WASH PRIMERS | 420 |
| PRIMERS, SEALERS AND UNDERCOATERS | 100 |
| REACTIVE PENETRATING SEALERS | 350 |
| RECYCLED COATINGS | 250 |
| ROOF COATINGS | 50 |
| RUST PREVENTATIVE COATINGS | 250 |
| SHELLACS | |
| CLEAR | 730 |
| OPAQUE | 550 |
| SPECIALITY PRIMERS, SEALERS AND UNDERCOATERS: | 100 |
| STAINS | 250 |
| STONE CONSOLIDANTS | 450 |
| SWIMMING POOLS COATING | 340 |
| TRAFFIC MARKING COATINGS | 100 |
| TUB AND TILE REFINISH COATINGS | 420 |
| WATERPROOFING MEMBRANES | 250 |
| WOOD COATINGS | 275 |
| WOOD PRESERVATIVES | 350 |
| ZINC-RICH PRIMERS | 340 |

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER AND INCLUDING EXEMPT COMPOUNDS.
2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.
3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEBRUARY 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

SEE PROJECT SPECIFICATIONS.

5.504.4.4 CARPET SYSTEMS.

ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.2, JANUARY 2017 (EMISSION TESTING METHOD FOR CALIFORNIA SPECIFICATION 01350).

SEE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH'S WEBSITE FOR CERTIFICATION PROGRAMS AND TESTING LABS.

https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx# material

5.504.4.4.1 CARPET CUSHION.

ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.2, JANUARY 2017 (EMISSION TESTING METHOD FOR CALIFORNIA SPECIFICATION 01350).

SEE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH'S WEBSITE FOR CERTIFICATION PROGRAMS AND TESTING LABS.

https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx# material

5.504.4.4.2 CARPET ADHESIVE.

ALL CARPET ADHESIVE SHALL MEET THE REQUIREMENTS OF TABLE 5.504.4.1.

NOT APPLICABLE.

5.504.4.5 COMPOSITE WOOD PRODUCTS.

HARDWOOD PLYWOOD, PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET THE REQUIREMENTS FOR FORMALDEHYDE AS SPECIFIED IN ARB'S AIR TOXICS CONTROL MEASURE (ATCM) FOR COMPOSITE WOOD (17 CCR 93120 ET SEQ.) THOSE MATERIALS NOT EXEMPTED UNDER THE ATCM MUST MEET THE SPECIFIED EMISSION LIMITS, AS SHOWN IN TABLE 5.504.4.5.

TABLE 5.504.4.5
FORMALDEHYDE LIMITS [1]
MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION.

| PRODUCT | CURRENT LIMIT |
|---|---|
| HARDWOOD PLYWOOD VENEER CORE | 0.05 |
| HARDWOOD PLYWOOD COMPOSITE CORE | 0.05 |
| PARTICLE BOARD | 0.09 |
| MEDIUM DENSITY FIBERBOARD | 0.11 |
| THIN MEDIUM DENSITY FIBERBOARD [2] | 0.13 |

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.
2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCH (8 MM).

SEE ARCHITECTURAL SPECIFICATIONS.

5.504.4.5.1 EARLY COMPLIANCE.

RESERVED.

5.504.4.5.3 DOCUMENTATION.

VERIFICATION OF COMPLIANCE WITH THIS SECTION SHALL BE PROVIDED AS REQUESTED BY THE ENFORCING AGENCY. DOCUMENTATION SHALL INCLUDE AT LEAST ONE OF THE ITEMS 1 THROUGH 5 LISTED IN SECTION 5.504.4.5.3.

1. PRODUCT CERTIFICATIONS AND SPECIFICATIONS.
2. CHAIN OF CUSTODY CERTIFICATIONS.
3. PRODUCT LABELED AND INVOICED AS MEETING THE COMPOSITE WOOD PRODUCTS REGULATION (SEE CCR, TITLE 17, SECTION 93120, ET SEQ.).
4. EXTERIOR GRADE PRODUCTS MARKED AS MEETING THE PS-1 OR PS-2 STANDARDS OF THE ENGINEERED WOOD ASSOCIATION, THE AUSTRALIAN AS/NZS 2269 OR EUROPEAN 636 3S STANDARDS.
5. OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY.

DOCUMENTATION AVAILABLE UPON REQUEST.

5.504.4.6 RESILIENT FLOORING SYSTEMS.

WHERE RESILIENT FLOORING IS INSTALLED AT LEA

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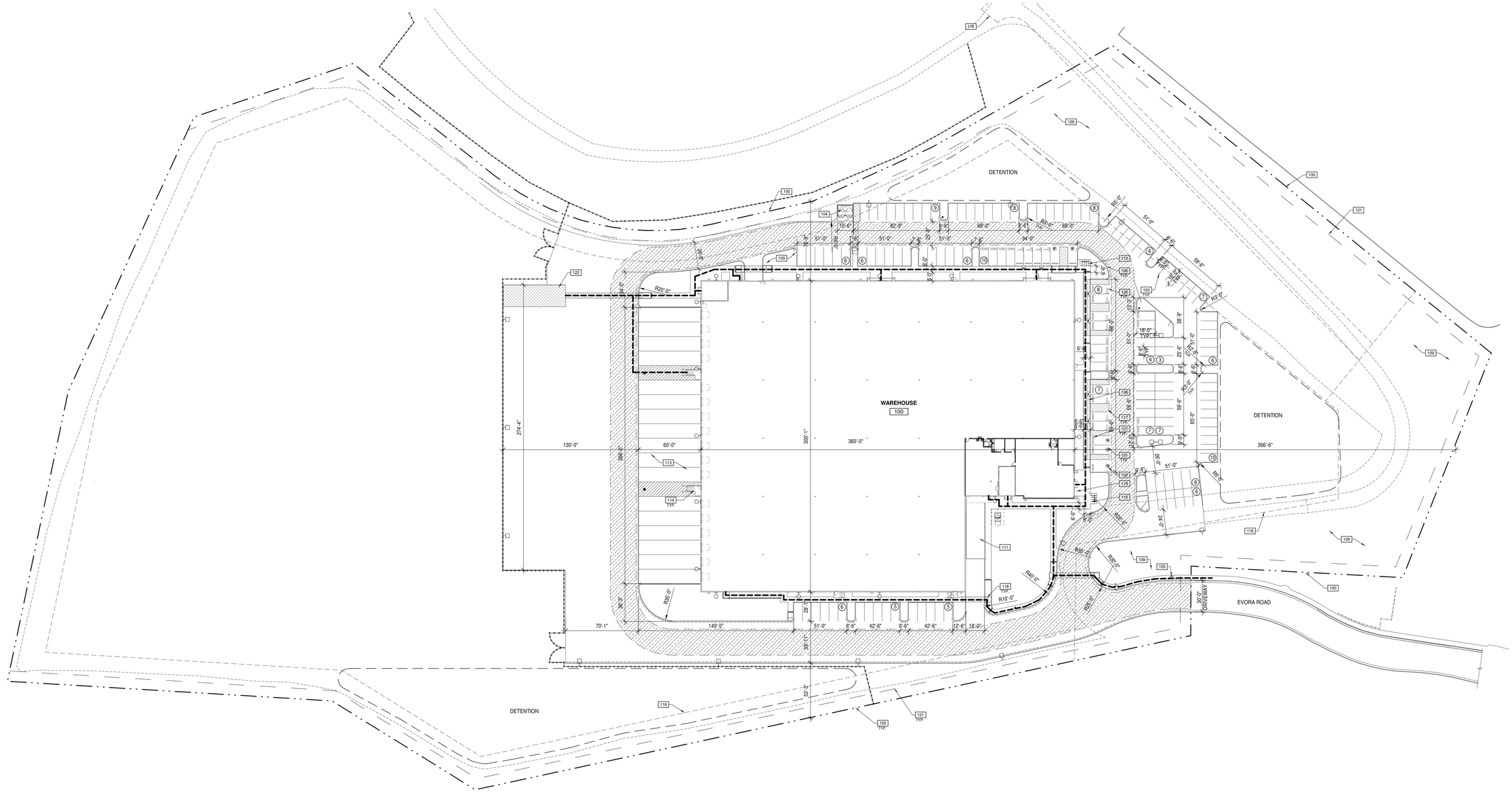


## SITE PLAN (FOR REFERENCE ONLY)

SCALE: 1" = 40'-0"

PROJECT NORTH / TRUE NORTH

## SITE DATA

| | | |
|---|---|---|
| LOT | 671,853 S.F. | (15.42 ACRES) |
| BUILDING AREA | 98,430 | S.F. |
| BUILDING COVERAGE | 15 | % |
| PARKING REQUIRED: | | |
| RETAIL (1/300) | 12 | REQUIRED |
| WAREHOUSE (1/1000) | 94 | REQUIRED |
| PARKING REQUIRED | 106 | STALLS |
| PARKING PROVIDED: | | |
| STANDARD PARKING PROVIDED | 119 | STALLS |
| ACCESSIBLE PARKING PROVIDED | 5 | STALLS |
| EVCS STALL PROVIDED | 12 | STALLS |
| CLEAN AIR/VANPOOL/EV STALLS PROVIDED | 12 | STALLS |
| TOTAL PARKING PROVIDED | 148 | STALLS |
| ACCESSOR'S PARCEL NO: | 099-160-026<br>099-160-027 | |
| ZONING DISTRICT: L- I | | |

## LEGEND

- ACCESSIBLE PATH OF TRAVEL. 1:20 MAX. SLOPE, 2% MAX. CROSS SLOPE.
- PROPERTY LINE.
- POLE MOUNTED LIGHT FIXTURE. (4 / A6.1a)
- WALLPACK LIGHT FIXTURE.
- T — TRANSFORMER WITH CONCRETE PAD. (PROVIDE PROTECTION BOLLARDS PER LOCAL UTILITY OR PUBLIC WORK STANDARDS)
- FIRE LANE (HATCHED)
- (1) — PARKING STALL COUNT TOTAL
- DOCK HIGH TRUCK DOOR
- GRADE LEVEL TRUCK DOOR
- FIRE HYDRANT

## KEYNOTES:

SEE SHEET I000 FOR GENERAL NOTES

100. PROPERTY LINE.
101. EXISTING ACCESSIBLE PARKING STALL WITH SIGNAGE.
102. EXISTING VAN ACCESSIBLE PARKING STALL WITH SIGNAGE.
103. EXISTING PAINTED PARKING STRIPING PER CITY STANDARDS. 2'-0" PARKING OVERHANG.
104. EXISTING TRASH ENCLOSURE WITH RECYCLE BIN.
105. EXISTING FIRE LANE ENTRY SIGNAGE.
106. EXISTING FIRE LANE CURB, DASHED LINE INDICATES EXTENT OF CONTINUOUS CURB TO BE PAINTED RED.
107. EXISTING PRECAST CONCRETE WHEEL STOP.
108. EXISTING ACCESSIBLE CURB RAMP WITH TRUNCATED DOMES.
109. EXISTING LANDSCAPE AND IRRIGATION AREA.
110. EXISTING 6' HIGH CHAINLINK FENCE.
111. EXISTING CONCRETE RAMP.
112. NOT USED
113. EXISTING CONCRETE PAVEMENT.
114. EXISTING EXTERIOR STEEL STAIRS. ALL COMPONENTS GALVANIZED AND PAINTED.
115. EXISTING BIKE RACK.
116. EASEMENT LINE.
117. EXISTING ACCESSIBLE LOADING ZONE.
118. EXISTING TRUNCATED DOMES.
119. EXISTING RECESSED KNOX-BOX. INSTALL AT 5'-0" ABOVE FINISH FLOOR. COORDINATE FINAL LOCATION WITH FIRE INSPECTOR.
120. EXISTING EVCS STALL
121. SETBACK LINE.
122. EXISTING SAFE DISPERSAL AREA.


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LICENSED ARCHITECT
JAMES ALLEN TAYLOR
No. C-34838
05-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

# U-HAUL TENANT IMPROVEMENT
4658 EVORA ROAD
CONCORD, CALIFORNIA 94520

SITE PLAN (FOR REFERENCE ONLY)

| DATE | REMARKS |
|---|---|
| 05/17/2024 | PERMIT SUBMITTAL |

| | |
|---|---|
| PA/PM: | A. GHOORCHIAN |
| DRAWN BY.: | A.C. |
| JOB NO.: | SNR24-0001-00 |

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I100


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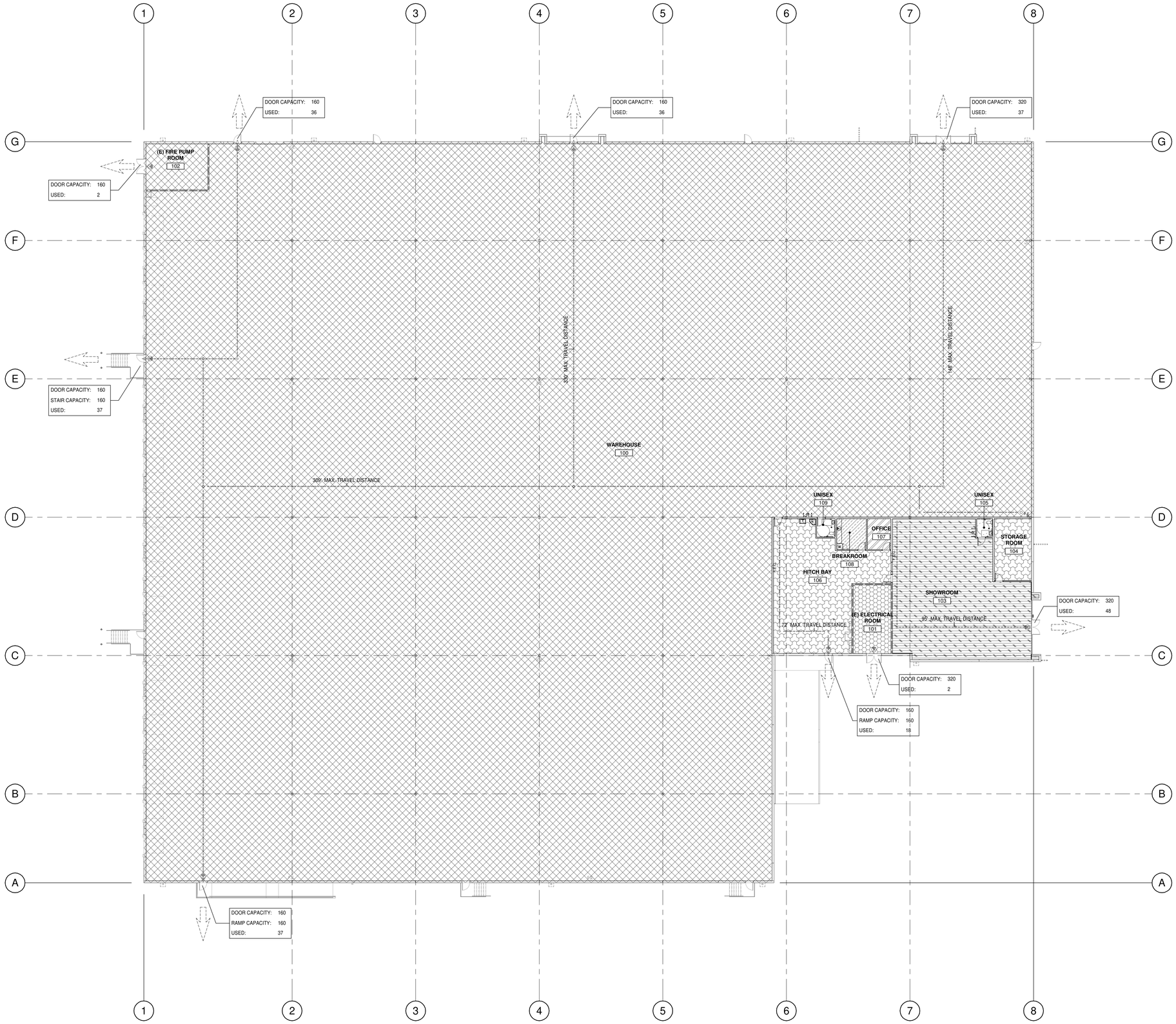


1/8"=1'-0"

0 4' 8' 16' 32'

## FIRST FLOOR- OCCUPANCY AND EGRESS PLAN

SCALE: 1/16" = 1'-0"

# EGRESS PLAN NOTES

1. SEE SHEETS I0.1 - I0.2 FOR ADDITIONAL GENERAL NOTES.
2. POSTED SIGNS IN AN ASSEMBLY OCCUPANCY SHALL BE OF AN APPROVED LEGIBLE PERMANENT DESIGN AND SHALL BE MAINTAINED BY THE OWNER OR AUTHORIZED AGENT.

# KEYNOTES: -

# EGRESS ANALYSIS

EGRESS ANALYSIS

| ROOM NUMBER | ROOM NAME | OCC. GROUP | OCC. LOAD FACTOR | AREA | OCC. LOAD | REQ. EXIT WIDTH | EXIT WIDTH PROVIDED |
|---|---|---|---|---|---|---|---|
| 101 | (E) ELEC ROOM | S-1 | 300 | 425 SF | 2 | 32" | 64" |
| 103 | SHOWROOM | M | 60 | 2,742 SF | 46 | 32" | 64" |
| 104 | STORAGE ROOM | S-1 | 300 | 379 SF | 2 | 32" | 32" |
| 105 | UNISEX RESTROOM | ACC. | 0 | 48 SF | | | |
| 106 | HITCH BAY | S-1 | 300 | 1,789 SF | 6 | 32" | 32" |
| 107 | OFFICE | B | 150 | 119 SF | 1 | 32" | 32" |
| 108 | BREAK ROOM | B | 15 | 151 SF | 11 | 32" | 32" |
| 109 | UNISEX RESTROOM | ACC. | 0 | 56 SF | | | |
| TOTALS: 8 | | | | | 68 | | |

INDICATES AREA OF ACCESSORY OCCUPANCY CLASSIFICATION WITH OCCUPANT LOAD FACTOR OF 0 GROSS

INDICATES AREA OF OCCUPANCY CLASSIFICATION M WITH OCCUPANT LOAD FACTOR OF 60 GROSS

INDICATES AREA OF OCCUPANCY CLASSIFICATION B WITH OCCUPANT LOAD FACTOR OF 15 NET

INDICATES AREA OF OCCUPANCY CLASSIFICATION B WITH OCCUPANT LOAD FACTOR OF 150 GROSS

INDICATES AREA OF OCCUPANCY CLASSIFICATION S-1 WITH OCCUPANT LOAD FACTOR OF 300 GROSS

# RESTROOM SUMMARY

FIXTURES REQUIRED (BASED ON IPC TABLE 403.1):

| | | | | | | WC. M | WC. W | URINALS | LAVATORY M | LAVATORY W | DRINKING FOUNTAINS | SERVICE SINKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SHOWROOM | 2,742 S.F. | / 100 | = 27.42 | / 2 | = 13.71 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| STORAGE | 379 S.F. | / 4000 | = 2.56 | / 2 | = 1.28 | 1 | 1 | 1 | | | | |
| OFFICE | 119 S.F. | / 150 | = .79 | / - | = .79 | 1 | 1 | 1 | | | | |
| BREAKROOM | 151 S.F. | / 150 | = 1.01 | / 2 | = .05 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| HITCH BAY | 1,789 S.F. | / 4000 | = 12.36 | / 2 | = 6.18 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| WAREHOUSE | 90,979 S.F. | / 4000 | = 22.74 | / 2 | = 11.373 625 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| TOTAL S-1 | 93,228 S.F. | / 4000 | = 23.31 | / 2 | = 11.37 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| TOTAL B | 271 | / 150 | = 1.81 | / 2 | = .90 | | | | | | | |

# MAX. TRAVEL DISTANCE TO EXITS

MAXIMUM TRAVEL DISTANCE TO EXITS (1017.2 SPRINKLERED BUILDING)

S-1/STORAGE (MODERATE-HAZARD WAREHOUSE)..... 400 FEET MAX.
B/BUSINESS (OFFICE)..... 300 FEET MAX.
M/MERCANTILE (RETAIL)..... 250 FEET MAX.

# MAX. COMMON PATH OF TRAVEL

MAX. COMMON PATH OF TRAVEL DISTANCE (1006.2.1 SPRINKLERED BUILDING)

M/MERCANTILE (RETAIL)..... 75 FEET MAX.
S-1/STORAGE (MODERATE-HAZARD WAREHOUSE)..... 100 FEET MAX.
B/BUSINESS (OFFICE)..... 100 FEET MAX.

# LEGEND

- REQUIRED ACCESSIBLE EXIT
- EXISTING ACCESSIBLE EXIT
- DIRECTION OF TRAVEL.
- MAXIMUM TRAVEL DISTANCE.
- COMMON PATH OF EGRESS TRAVEL (C.P.E.T.).
- 0 — ORIGINATING OCCUPANT LOAD.
- 0 — CUMULATIVE OCCUPANT LOAD FROM ADJOINING ROOMS.
- 0 — AGGREGATE OCCUPANT LOAD AT DESIGNATED POINT.
- 0 — AGGREGATE OCCUPANT LOAD AT DOOR.
- F.E. — FIRE EXTINGUISHER
- F.E.C. — FIRE EXTINGUISHER CABINET
- X1 — CEILING-MOUNTED EXIT SIGN WITH BATTERY BACKUP, SHADED QUADRANT INDICATES FACE OF LETTERING, SIGN TO INCLUDE DIRECTIONAL ARROW AS INDICATED.
- X2 — WALL-MOUNTED EXIT SIGN WITH BATTERY BACKUP, SHADED QUADRANT INDICATES FACE OF LETTERING, SIGN TO INCLUDE DIRECTIONAL ARROW AS INDICATED.

NOTE: ADDITIONAL DIRECTIONAL EXIT SIGNS MAY BE REQUIRED PRIOR TO FINAL INSPECTION AND SUBJECT TO BUILDING INSPECTOR.

INDICATES AREA NOT IN CONTRACT (N.I.C.)

A4 — WALL TAG, WALL HEIGHT, STUD SIZE, PER DETAIL, WALL TYPE


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LICENSED ARCHITECT
JAMES ALLEN TAYLOR
No. C-34838
06-17-2025
RENEWAL DATE
STATE OF CALIFORNIA

# U-HAUL TENANT IMPROVEMENT
4658 EVORA ROAD
CONCORD, CALIFORNIA 94520

OCCUPANCY AND EGRESS PLAN

| DATE | REMARKS |
|---|---|
| 05/17/2024 | PERMIT SUBMITTAL |

| | |
|---|---|
| PA/PM: | A. GHOORCHIAN |
| DRAWN BY.: | A.C. |
| JOB NO.: | SNR24-0001-00 |

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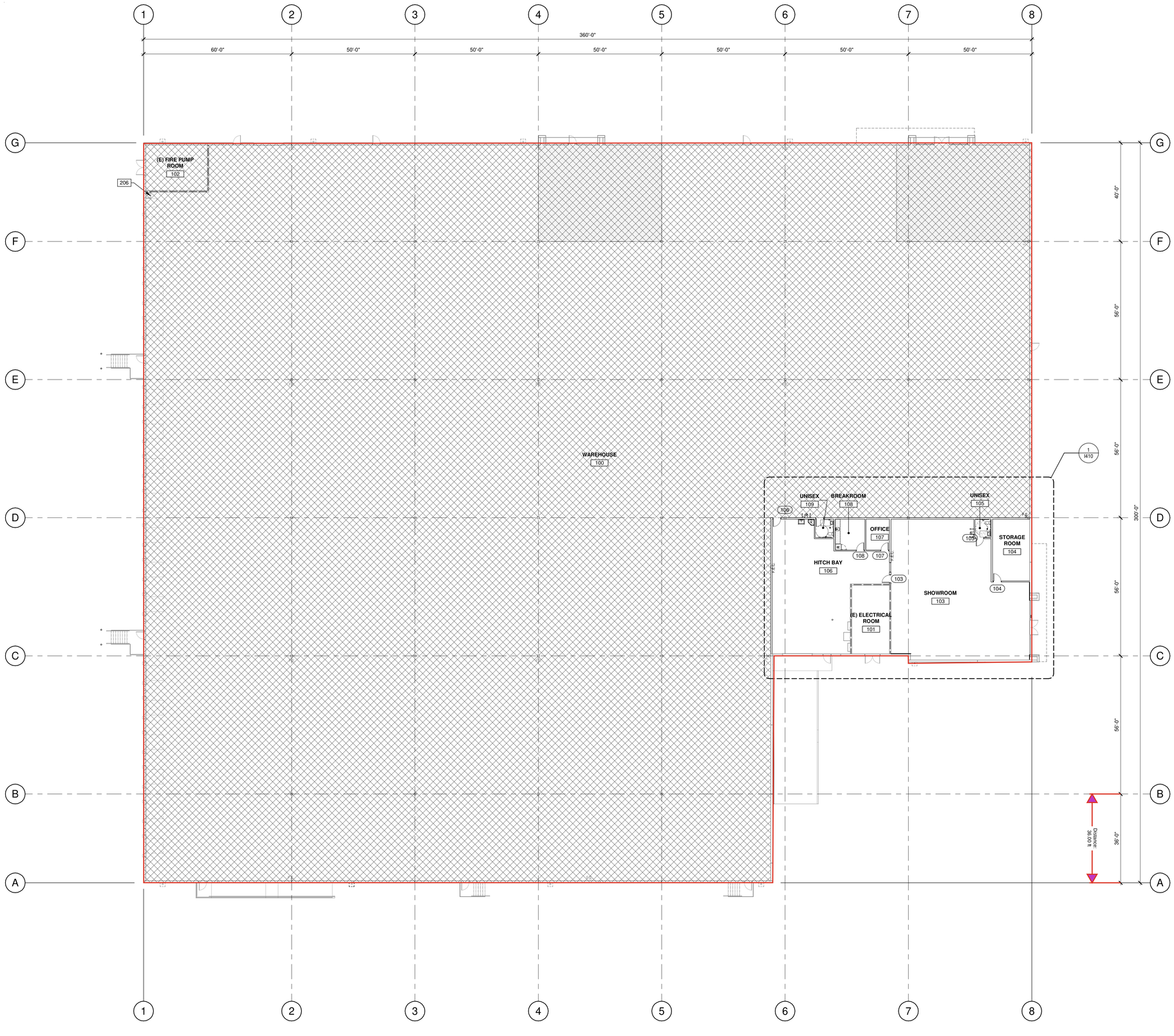


# FIRST FLOOR PLAN

SCALE: 1/16" = 1'-0"

## FLOOR PLAN NOTES

SEE SHEETS **I000** FOR GENERAL NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS THAT MIGHT ARISE.
2. CONTRACTOR SHALL NOTIFY ARCHITECT TO PERFORM AN ON-SITE REVIEW ONCE ALL PARTITIONS HAVE BEEN LAID OUT, PRIOR TO ERECTING THE PARTITIONS, AND ADDRESS ANY DISCREPANCIES WITH DIMENSIONS SHOWN ON THE CONTRACT DOCUMENTS.
3. ALL METAL WALL STUDS TO BE 3-5/8" DEPTH - GAUGE AND SPACING PER L/240 SPAN TABLE, ON THE FRAMING DETAILS SHEET, U.O.N.
4. ALL RESTROOM WALL STUDS AT SINGLE-STUD RESTROOM WET-WALLS TO BE MINIMUM 6" DEEP, AND FULLY INSULATED WITH R-13 UNFACED FIBERGLASS INSULATION (OR EQUIVALENT), U.O.N.
5. ALL NEW INTERIOR PARTITIONS TO BE FULLY INSULATED WITH A MINIMUM OF R-11 UNFACED FIBERGLASS INSULATION (OR EQUIVALENT), U.O.N.
6. DRYWALL GYPSUM BOARD SHALL BE FINISHED AS FOLLOWS, U.O.N. REFER TO GYPSUM ASSOCIATION PUBLICATION, GA-214 (https://www.certainteed.com/drywall/what-are-recommended-levels-finish/):
   a. FOR PLENUM AND NON-VISIBLE AREAS – LEVEL-1, AREAS WITH OPEN-CEILINGS OR CLOUDS TO BE FINISHED AS FOR VISIBLE PARTITIONS.
   b. BEHIND WALL TILE – LEVEL-2
   c. ALL VISIBLE PARTITION SURFACES – LEVEL 4, UNLESS NOTED AS LEVEL-5 BY OTHER NOTES OR KEYED NOTE.
7. PROVIDE DRYWALL EXPANSION & CONTROL JOINTS PER "WALL AND CEILING BUREAU" (WCB) STANDARDS. PROVIDE SHOP DRAWINGS FOR REVIEW PRIOR TO INSTALLATION.
8. ALL DRYWALL CORNERS AND COLUMN EDGES TO BE FINISHED WITH CORNER "L" BEAD.
9. DIMENSIONS OF COLUMN FURRING IN A COMMON AREA ARE TO BE EQUAL & CONSISTENT.
10. PATCH AND REPAIR ANY DAMAGE TO EXISTING WINDOW SILLS CAUSED BY DEMOLITION: MATCH EXISTING SILL CONDITION. FINISH TO MATCH EXISTING WINDOW FRAMES.
11. ACCESS PANELS IN WALLS/CEILINGS FOR PLUMBING, MECHANICAL, AND ELECTRICAL ACCESS SHALL BE FLUSH FRAMELESS GYPSUM BOARD PANELS.
12. EXTEND EXISTING GYPSUM BOARD PARTITIONS/FURRING TO UNDERSIDE OF STRUCTURE IN AREAS OF OPEN CEILINGS.
13. ALL BLOCKING IN WALL TO BE FIRE RETARDANT TREATED SOLID WOOD BLOCKING, OR CONTINUOUS METAL STRAPPING. COORDINATE EXACT LOCATIONS AND EXTENT IN FIELD. GC TO PROVIDE BLOCKING FOR ALL OWNER SUPPLIED MILLWORK, IN ADDITION TO MILLWORK SUPPLIED BY THE GC, AND WALL HUNG EQUIPMENT.
14. FOR WALL MOUNTED TELEVISIONS, PROVIDE BLOCKING IN WALLS AS APPROPRIATE FOR MOUNTING TYPE. COORDINATE WITH A/V SPECIFICATIONS & REQUIREMENTS.

## KEYNOTES:

206 EXISTING ROOF ACCESS LADDER.

## WALL LEGEND

| WALL | BASIC DESCRIPTION |
|---|---|
| | EXISTING WALL |
| | EXISTING EXTERIOR WALL WITH NEW FURRING |
| | INTERIOR NON-RATED CONSTRUCTION |
| | 1HR FIRE-RESISTANCE RATED |
| | 2HR FIRE-RESISTANCE RATED |
| | 3HR FIRE-RESISTANCE RATED |
| | INDICATES AREA NOT IN CONTRACT (N.I.C.) |

1d — WALL TAG
WALL HEIGHT
STUD SIZE, PER DETAIL
WALL TYPE


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LICENSED ARCHITECT JAMES ALLEN TAYLOR No. C-34838 REGISTERED 10-31-2025 RENEWAL DATE STATE OF CALIFORNIA

# U-HAUL TENANT IMPROVEMENT
4658 EVORA ROAD
CONCORD, CALIFORNIA 94520

OVERALL FLOOR PLAN

| DATE | REMARKS |
|---|---|
| 05/17/2024 | PERMIT SUBMITTAL |

| | |
|---|---|
| PA/PM: | A. GHOORCHIAN |
| DRAWN BY.: | A.C. |
| JOB NO.: | SNR24-0001-00 |

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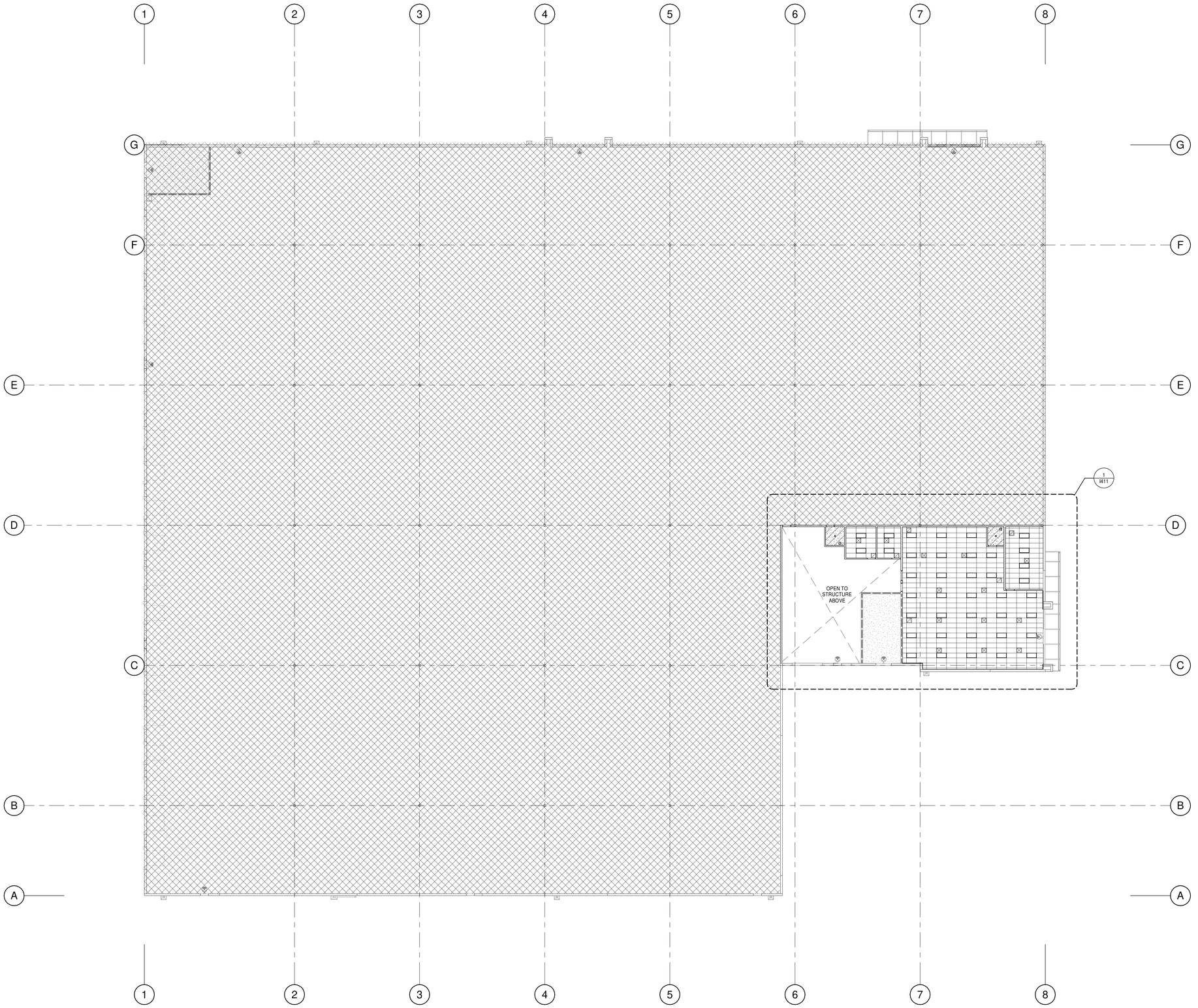


## CEILING PLAN NOTES

SEE SHEETS **I000** FOR GENERAL NOTES

SEE SHEET **I020** FOR FINISH, PLUMBING FIXTURES, RESTROOM ACCESSORIES, EQUIPMENT AND LIGHT FIXTURE SCHEDULES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS THAT MIGHT ARISE.
2. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS BEFORE PROCEEDING WITH INSTALLING THE WORK.
3. SEE FIXTURE SCHEDULE FOR FIXTURE TYPE DESIGNATIONS, AND TYPICAL MOUNTING HEIGHTS (U.O.N). COORDINATE MOUNTING OPTIONS WITH OWNER'S REPRESENTATIVE & ARCHITECT. NOTIFY OWNER/ARCHITECT OF ANY CONFLICTS WITH OTHER ELEMENTS PRIOR TO INSTALLATION.
4. ALL MATERIALS USED WITHIN CEILING PLENUM SHALL BE NON-COMBUSTIBLE.
5. IN GYPSUM BOARD CEILINGS THE LIGHTS, HVAC ELEMENTS, FIRE DEVICES, ETC. ARE TO ALIGN IN A NEAT AND REGULAR PATTERN. REVIEW LAYOUT WITH ARCHITECT PRIOR TO ROUGH-IN.
6. DEVICES IN ACOUSTICAL CEILING TILES TO BE CENTERED IN A 2'X2' TILE, OR 2'X2' PORTION OF A 2'X4' TILE, U.O.N.
7. GENERAL CONTRACTOR TO IDENTIFY QUANTITY AND LOCATIONS OF ALL ACCESS PANELS TO CEILING PLENUM SPACES IN GYPSUM BOARD CEILINGS: ACCESS PANELS TO BE AVOIDED WHERE POSSIBLE. IF AN ACCESS PANEL IS REQUIRED, COORDINATE LOCATION WITH ARCHITECT. CEILING ACCESS PANELS TO BE FLUSH FRAMELESS GYPSUM-BOARD INFILL PANELS.
8. SEE KEYNOTE INFORMATION FOR ANY REQUIRED CEILING INSULATION.
9. ALL ACOUSTICAL CEILING GRIDS & TILE TO BE CENTERED WITHIN A ROOM, U.O.N.
10. WHERE LIGHTING IS WITHIN MILLWORK OR WALL ELEMENTS SUCH AS MIRRORS, GC IS RESPONSIBLE TO COORDINATE WITH ALL ELECTRICAL TRADES.

## KEYNOTES:

## LEGEND

- SUSPENDED CEILING SYSTEM THROUGHOUT TO BE ARMSTRONG/USG 2'x4' "OMNI FISSURE" TILE IN WHITE WITH 15/16" PERLUDE GRID. SEE 12/I510 THROUGH 19/I510
- 5/8" GYPSUM BOARD CEILING OR SOFFIT - USE RATED MATERIAL & CONSTRUCTION WHERE REQUIRED.
- 2'x4' LED LIGHT FIXTURE.
- RECESSED 6" OR 8" LED DOWNLIGHT.
- EXHAUST AIR GRILL.
- SUPPLY AIR GRILL.
- RETURN AIR GRILL.
- X1 CEILING-MOUNTED EXIT SIGN WITH BATTERY BACKUP, SHADED QUADRANT INDICATES FACE OF LETTERING, SIGN TO INCLUDE DIRECTIONAL ARROW AS INDICATED.
- X2 WALL-MOUNTED EXIT SIGN WITH BATTERY BACKUP, SHADED QUADRANT INDICATES FACE OF LETTERING, SIGN TO INCLUDE DIRECTIONAL ARROW AS INDICATED.

NOTE: ADDITIONAL DIRECTIONAL EXIT SIGNS MAY BE REQUIRED PRIOR TO FINAL INSPECTION AND SUBJECT TO BUILDING INSPECTOR.

- INDICATES AREA NOT IN CONTRACT (N.I.C.)
- A4 — WALL TAG; WALL HEIGHT; STUD SIZE, PER DETAIL; WALL TYPE

## WALL TYPES / LEGEND

SEE FLOOR PLANS FOR MORE DETAILED INFORMATION.

| DETAIL # | WALL | BASIC DESCRIPTION |
|---|---|---|
| | | EXISTING WALL |
| | | EXISTING 1HR FIRE-RESISTANCE RATED |
| 1/I510 | A | 3-5/8" OR 6" METAL STUDS AT 24" O.C. WITH SINGLE LAYER 5/8" G.W.B. EACH SIDE; UNFACED R-13 BATT INSULATION AT ALL RESTROOM WALLS; PROVIDE M.R. G.W.B. PER NOTE 1 |
| 2/I510 | B | 6" METAL STUDS AT 24" O.C. (UNO) WITH MBCI U-PANEL AND KICK PLATE WAREHOUSE SIDE AND 5/8" G.W.B. OTHER SIDE; UNFACED R-19 BATT INSULATION; G.W.B. PER NOTE 1 |
| 3/I510 | C | 3-5/8" OR 6" METAL STUDS AT 24" O.C. (UNO) WITH MBCI D-PANEL STORAGE SIDE AND 5/8" G.W.B. OTHER SDIE; UNFACED R-19 BATT INSULATION. G.W.B. PER NOTE 1 |
| 4/I510 | D | 6" METAL STUDS AT 30" O.C. (UNO) WITH MBCI D-PANEL AND KICK PLATE STORAGE SIDE AND MBCI U-PANEL AND KICK PLATE WAREHOUSE SIDE |
| 5/I510 | E | Z-FURRING CHANNELS SPACED 24" O.C. WITH INSULATION PER WALL TYPE NOTES. CHANNEL DEPTH TO MATCH INSULATIONS THICKNESS. SINGLE LAYER 5/8" GWB PER ROOM FINISH SCHEDULE |

1/16"=1'-0"

0 8' 16' 32' 64'

## REFLECTED CEILING PLAN

1 SCALE: 1/16" = 1'-0"

N

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LICENSED ARCHITECT JAMES ALLEN TAYLOR No. C-34838 REGISTERED 10-31-2025 RENEWAL DATE STATE OF CALIFORNIA

# U-HAUL TENANT IMPROVEMENT
4658 EVORA ROAD
CONCORD, CALIFORNIA 94520

OVERALL REFLECTED CEILING PLAN

| DATE | REMARKS |
|---|---|
| 05/17/2024 | PERMIT SUBMITTAL |

| | |
|---|---|
| PA/PM: | A. GHOORCHIAN |
| DRAWN BY.: | A.C. |
| JOB NO.: | SNR24-0001-00 |

SHEET
I140

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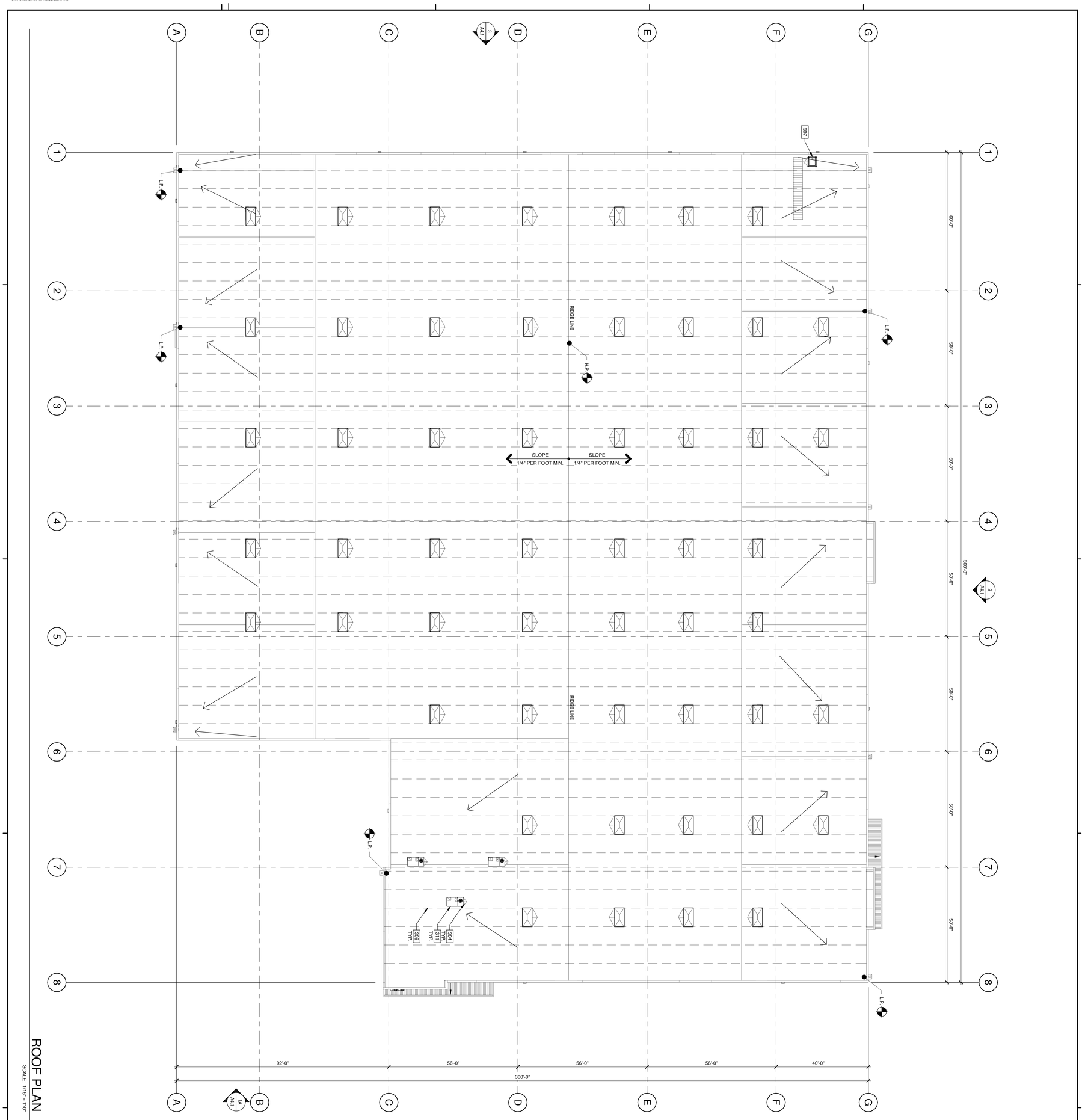


# ROOF PLAN

SCALE: 1/16" = 1'-0"

## KEYNOTES:

304 CRICKET
307 EXISTING ROOF HATCH
308 LINE OF EXISTING STRUCTURAL FRAMING BELOW DECK (HIDDEN).
311 HVAC ROOFTOP UNIT. SEE MECHANICAL DRAWINGS.

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| | |
|---|---|
| PA/PM: | A. SHOKOHIAN |
| DRAWN BY: | A.C. |
| JOB NO.: | SNR24-0001-00 |

OVERALL ROOF PLAN

| DATE | REMARKS |
|---|---|
| | |

# U-HAUL TENANT IMPROVEMENT

4658 EVORA ROAD
CONCORD, CALIFORNIA 94520

LICENSED ARCHITECT
JAMES HAUSEN LEE
No. C-30538
REGISTERED
STATE OF CALIFORNIA

**WARE MALCOMB**

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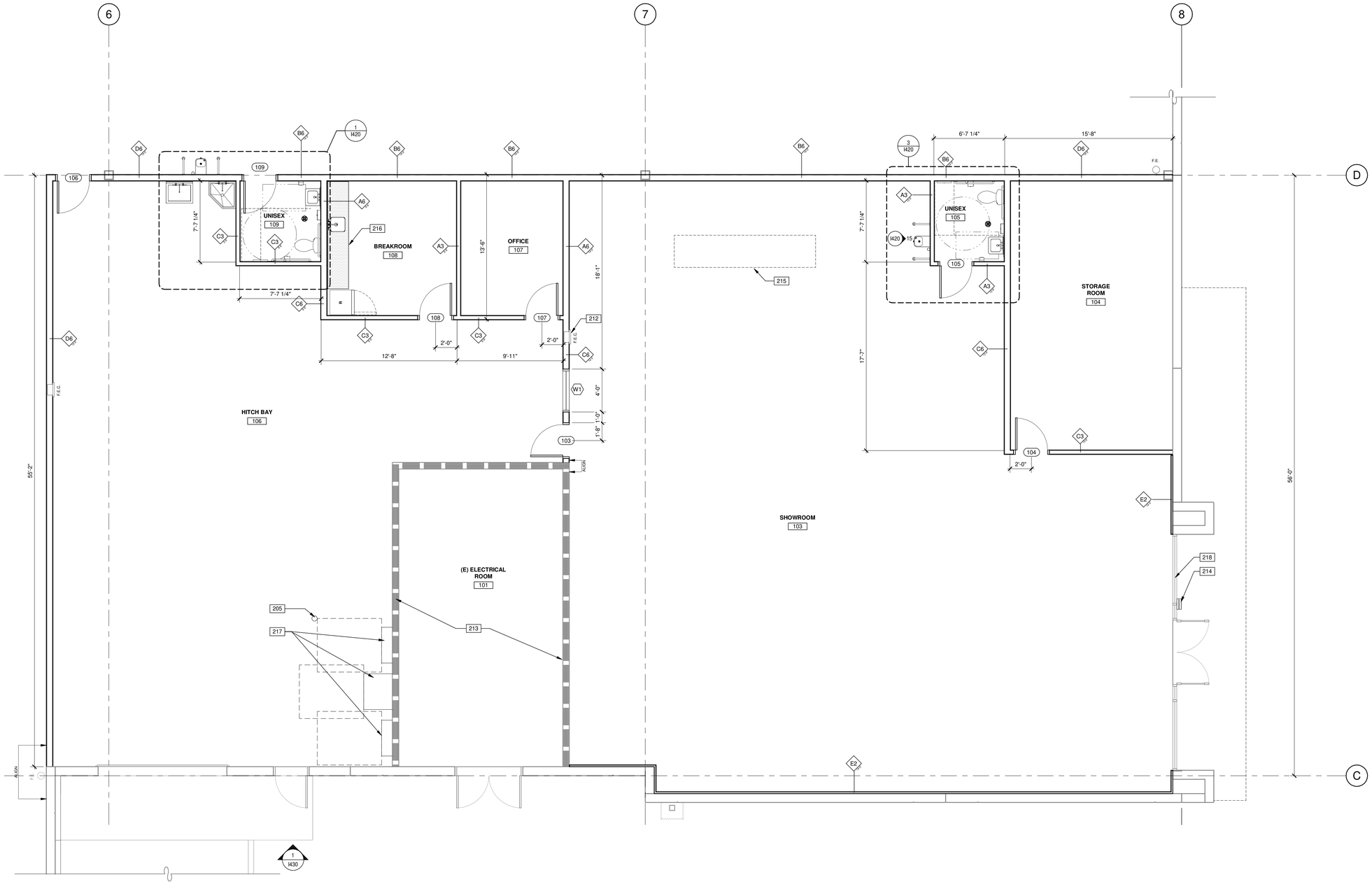


## ENLARGED FLOOR PLAN

SCALE: 1/4" = 1'-0"

## KEYNOTES:

205 STEEL BOLLARD, CONCRETE-FILLED PAINTED SAFETY YELLOW.
212 SEMI-RECESSED FIRE EXTINGUISHER CABINET AND FIRE EXTINGUISHER BY POTTER-ROEMER. CABINET TO BE ALTA SERIES #7013-DV, STEEL WITH RECOATABLE WHITE FINISH - PAINT (SEMI-GLOSS) TO MATCH ADJACENT PARTITION. EXTINGUISHER TO BE #3005, 2A:10B:C.
213 EXISTING ROOM TO REMAIN.
214 KEY DROP OFF BOX.
215 CUSTOMER COUNTER, PROVIDED BY U-HAUL RETAIL GROUP.
216 MILLWORK AND APPLIANCES PROVIDED BY U-HAUL RETAIL GROUP.
217 ELECTRICAL PANELS, SEE ELECTRICAL DRAWINGS.
218 GC TO PROVIDE WINDOW FILM AT GLAZING ABOVE CEILING IN ADJACENT INTERIOR SPACES.

## LEGENDS

INDICATES AREA NOT IN CONTRACT (N.I.C.)

A# — WALL TAG
WALL HEIGHT
STUD SIZE, PER DETAIL
WALL TYPE

## WALL TYPES

1. WATER-RESISTANT GYPSUM WALL BOARD TO BE USED AT WET LOCATIONS (VERIFY LOCATIONS BASED ON PLUMBING WALLS AND PLUMBING FIXTURES AS SHOWN ON THE BUILDING FLOOR PLANS.)
2. ALL PARTITION WALL TYPES TO BE OF 3-5/8" STUDS, MAX. 24" O.C. STUD SPACING AND CONSTRUCTED PER L/240 LIMITING HEIGHT WALL TABLE, U.O.N.
3. INTERIOR GYPSUM BOARD WALL SHALL CONFORM TO ICC REPORT ESR-1338. MIN. FASTENER: #6 1-1/4" SCREW, SPACING: 12" FIELD, 8" EDGES.
4. SEE DETAIL SHEET **I510** FOR WALL TYPE DETAILS.

| DETAIL # | WALL | BASIC DESCRIPTION |
|---|---|---|
| | | EXISTING WALL |
| | | EXISTING 1HR FIRE-RESISTANCE RATED |
| 1/I510 | A | 3-5/8" OR 6" METAL STUDS AT 24" O.C. WITH SINGLE LAYER 5/8" G.W.B. EACH SIDE; UNFACED R-13 BATT INSULATION AT ALL RESTROOM WALLS; PROVIDE M.R. G.W.B. PER NOTE 1 |
| 2/I510 | B | 6" METAL STUDS AT 24" O.C. (UNO) WITH MBCI U-PANEL AND KICK PLATE WAREHOUSE SIDE AND 5/8" G.W.B. OTHER SIDE; UNFACED R-19 BATT INSULATION; G.W.B. PER NOTE 1 |
| 3/I510 | C | 3-5/8" OR 6" METAL STUDS AT 24" O.C. (UNO) WITH MBCI D-PANEL STORAGE SIDE AND 5/8" G.W.B. OTHER SDIE; UNFACED R-19 BATT INSULATION. G.W.B. PER NOTE 1 |
| 4/I510 | D | 6" METAL STUDS AT 30" O.C. (UNO) WITH MBCI D-PANEL AND KICK PLATE STORAGE SIDE AND MBCI U-PANEL AND KICK PLATE WAREHOUSE SIDE |
| 5/I510 | E | Z-FURRING CHANNELS SPACED 24" O.C. WITH INSULATION PER WALL TYPE NOTES. CHANNEL DEPTH TO MATCH INSULATIONS THICKNESS. SINGLE LAYER 5/8" GWB PER ROOM FINISH SCHEDULE |


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LICENSED ARCHITECT
JAMES ALLEN TAYLOR
No. C-34838
10-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

# U-HAUL TENANT IMPROVEMENT
4658 EVORA ROAD
CONCORD, CALIFORNIA 94520

ENLARGED FLOOR PLAN

| REMARKS | DATE |
|---|---|
| PERMIT SUBMITTAL | 05/17/2024 |

| | |
|---|---|
| PA/PM: | A. GHOORCHIAN |
| DRAWN BY.: | A.C. |
| JOB NO.: | SNR24-0001-00 |

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I410

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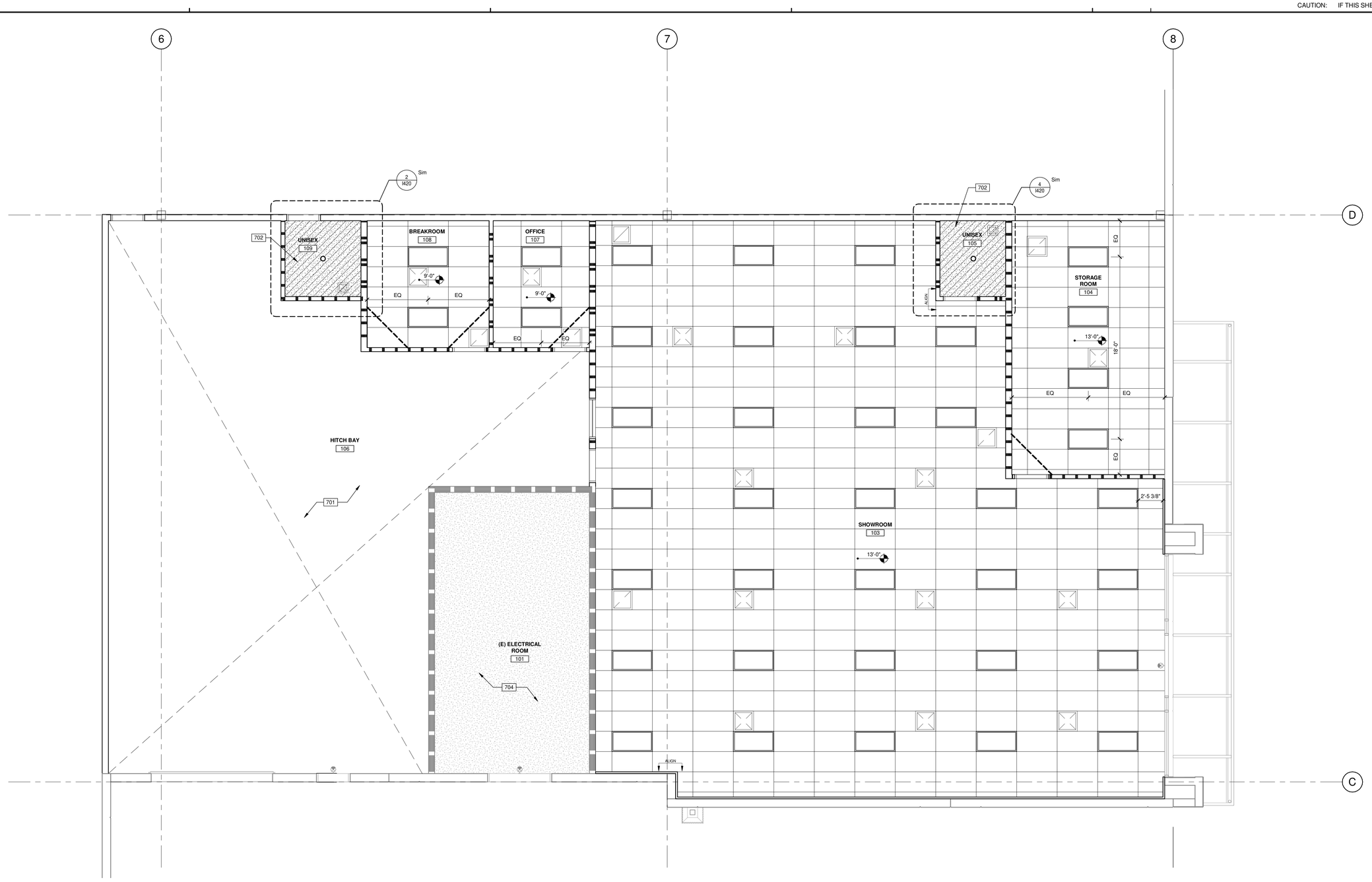


## ENLARGED REFLECTED CEILING PLAN

SCALE: 1/4" = 1'-0"

1 N

## KEYNOTES:

REFLECTED CEILING PLAN

701 THIS ROOM/AREA IS OPEN TO ABOVE.
702 CEILING OF THIS ROOM IS TO BE PROVIDED WITH (1) LAYER OF R-19 UNFACED FIBERGLASS INSULATION.
704 EXISTING CEILING TO REMAIN.

## LEGENDS

- SUSPENDED CEILING SYSTEM THROUGHOUT TO BE ARMSTRONG/USG 2'x4' "OMNI FISSURE" TILE IN WHITE WITH 15/16" PERLUDE GRIDE. SEE 12/I510 THROUGH 19/I510
- 5/8" GYPSUM BOARD CEILING OR SOFFIT - USE RATED MATERIAL & CONSTRUCTION WHERE REQUIRED.
- 5/8" GYPSUM BOARD CEILING OR SOFFIT WITH (1) LAYER OF R-19 UNFACED FIBERGLASS INSULATION - USE RATED MATERIAL & CONSTRUCTION WHERE REQUIRED.
- 2'x4' LED LIGHT FIXTURE.
- RECESSED 6" OR 8" LED DOWNLIGHT.
- EXHAUST AIR GRILL.
- SUPPLY AIR GRILL.
- RETURN AIR GRILL.
- X1 CEILING-MOUNTED EXIT SIGN WITH BATTERY BACKUP, SHADED QUADRANT INDICATES FACE OF LETTERING, SIGN TO INCLUDE DIRECTIONAL ARROW AS INDICATED.
- X2 WALL-MOUNTED EXIT SIGN WITH BATTERY BACKUP, SHADED QUADRANT INDICATES FACE OF LETTERING, SIGN TO INCLUDE DIRECTIONAL ARROW AS INDICATED.

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| DETAIL # | WALL | BASIC DESCRIPTION |
|---|---|---|
| | | EXISTING WALL |
| | | EXISTING 1HR FIRE-RESISTANCE RATED |
| 1/I510 | A | 3-5/8" OR 6" METAL STUDS AT 24" O.C. WITH SINGLE LAYER 5/8" G.W.B. EACH SIDE; UNFACED R-13 BATT INSULATION AT ALL RESTROOM WALLS; PROVIDE M.R. G.W.B. PER NOTE 1 |
| 2/I510 | B | 6" METAL STUDS AT 24" O.C. (UNO) WITH MBCI U-PANEL AND KICK PLATE WAREHOUSE SIDE AND 5/8" G.W.B. OTHER SIDE; UNFACED R-19 BATT INSULATION; G.W.B. PER NOTE 1 |
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| 4/I510 | D | 6" METAL STUDS AT 30" O.C. (UNO) WITH MBCI D-PANEL AND KICK PLATE STORAGE SIDE AND MBCI U-PANEL AND KICK PLATE WAREHOUSE SIDE |
| 5/I510 | E | Z-FURRING CHANNELS SPACED 24" O.C. WITH INSULATION PER WALL TYPE NOTES. CHANNEL DEPTH TO MATCH INSULATIONS THICKNESS. SINGLE LAYER 5/8" GWB PER ROOM FINISH SCHEDULE |


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LICENSED ARCHITECT JAMES ALLEN TAYLOR No. C-34838 REN. 08-31-2025 STATE OF CALIFORNIA

# U-HAUL TENANT IMPROVEMENT
4658 EVORA ROAD
CONCORD, CALIFORNIA 94520

ENLARGED REFLECTED CEILING PLAN

| DATE | REMARKS |
|---|---|
| 06/17/2024 | PERMIT SUBMITTAL |

| | |
|---|---|
| PA/PM: | A. GHOORCHIAN |
| DRAWN BY.: | A.C. |
| JOB NO.: | SNR24-0001-00 |

SHEET
I411


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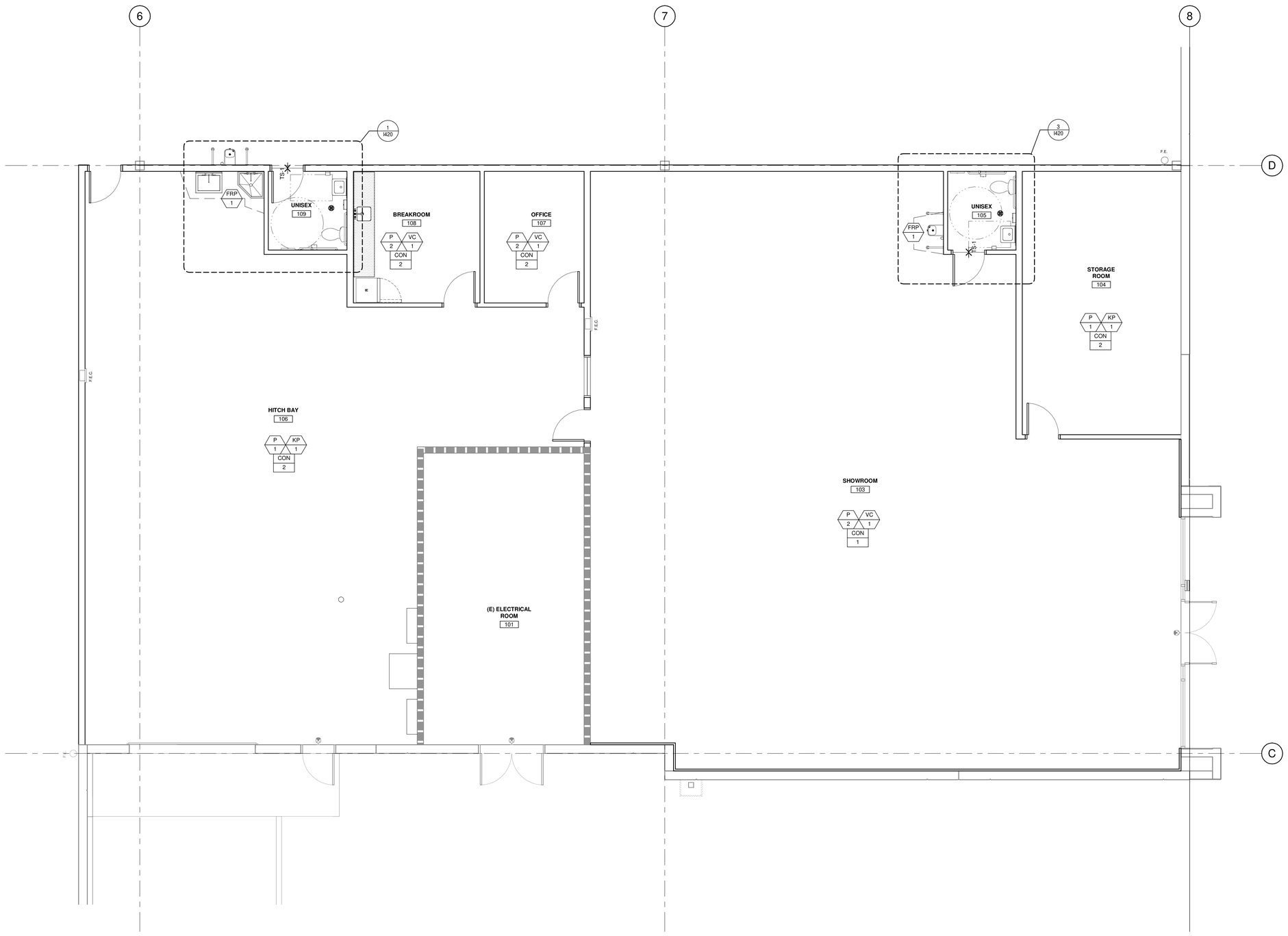


# FINISH PLAN NOTES

SEE SHEETS **I000** FOR GENERAL NOTES

SEE SHEET **I620** FOR FINISH, PLUMBING FIXTURES, RESTROOM ACCESSORIES, EQUIPMENT AND LIGHT FIXTURE SCHEDULES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS THAT MIGHT ARISE.
2. CONTRACTOR TO INCLUDE ALL FLOOR PREPARATIONS IN BASE BID.
3. SEE ENLARGED PLANS, ELEVATIONS AND DETAILS FOR ADDITIONAL FINISH INFORMATION.
4. PREPARE WALLS TO RECEIVE (2) COATS EGGSHELL PAINT, U.O.N.
5. PROVIDE LEVEL 5 FINISH FOR WALLS UNDER SKYLIGHTS & AT WALL-WASH LIGHT FIXTURES.
6. COORDINATE WITH OTHER TRADES AT LOCATIONS OF SPECIALTY WALL FINISHES, BRANDING OR SIGNAGE FOR SPECIFIC WALL PREP.
7. ALL AREAS WITHIN PROJECT BOUNDARY TO RECEIVE PAINT **(P-1A)**, RUBBER BASE **(B-1)** AND CARPET **(CP-1)**, U.O.N.
8. ALL GYPSUM BOARD CEILINGS AND SOFFITS TO RECEIVE PAINT **(P-1B)**, U.N.O.
9. PAINT DECK ABOVE AND ALL EXPOSED MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DUCTWORK AND PIPING IN OPEN CEILING AREAS.
10. ALL FINISHES TO BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS.
11. ALL FINISH TRANSITIONS AT DOORS TO BE LOCATED CENTERED UNDER THE DOOR, U.O.N.
12. PROVIDE FLOORING TRANSITIONS AS FOLLOWS, U.O.N.:
    a. RUBBER REDUCING STRIP AT ALL TRANSITIONS BETWEEN CARPET AND RESILIENT FLOORING OR CONCRETE.
    b. STAINLESS STEEL TRIM BY SCHLUTER OR EQUAL, AT ALL TRANSISTIONS BETWEEN TILE/STONE AND OTHER FINISHES.

# KEYNOTES: -

# FINISHES

SEE SHEET **I620** FOR FINISHES

- INDICATES LINE OF FLOOR TRANSITION NUMBER REFERENCES TRANSITION ACCESSORY (TR-#) LOCATED ON FINISH SCHEDULE
- INDICATES LOCATION OF NON-TYPICAL WALL FINISH
- INDICATES DIRECTION OF FLOORING INSTALLATION
- INDICATES WALL FINISHES
- INDICATES FLOOR FINISHES
- INDICATES MISCELLANEOUS FINISHES


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LICENSED ARCHITECT
JAMES ALLEN TAYLOR
No. C-34838
06-17-2025
RENEWAL DATE
STATE OF CALIFORNIA

# U-HAUL TENANT IMPROVEMENT
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CONCORD, CALIFORNIA 94520

ENLARGED FINISH PLAN

| DATE | REMARKS |
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| **DRAWN BY.:** | Author |
| **JOB NO.:** | SNR24-0001-00 |

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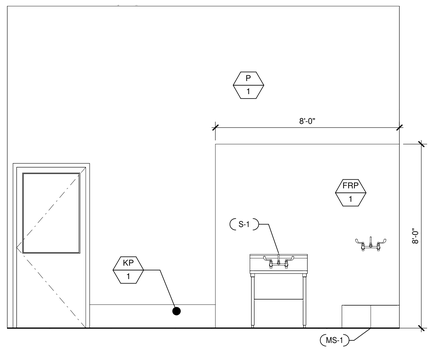
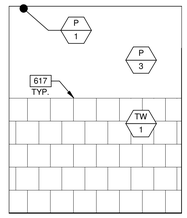
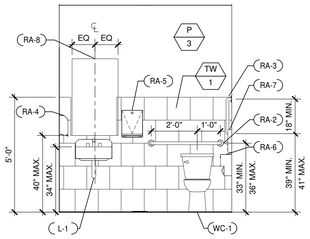


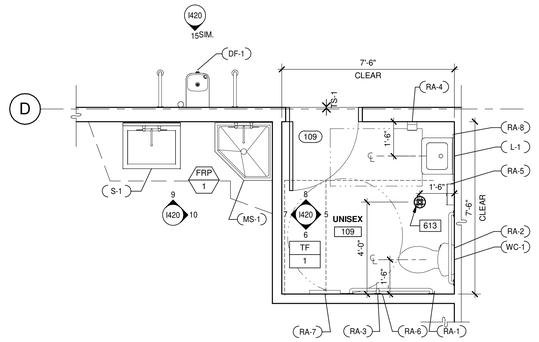

JANITOR 110 ELEVATION A 9
SCALE: 3/8" = 1'-0"



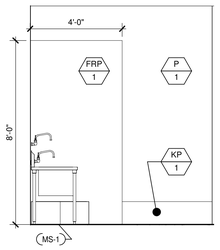

UNISEX 109 ELEVATION C 7
SCALE: 3/8" = 1'-0"



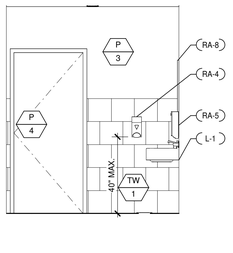

UNISEX 109 ELEVATION A 5
SCALE: 3/8" = 1'-0"



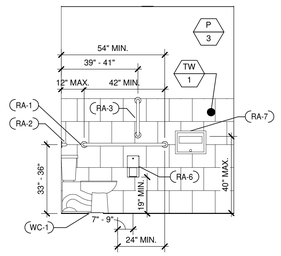

ENLARGED UNISEX 109 FLOOR PLAN 1
3/8"=1'-0"
0 1' 2' 4' 6' 12'
SCALE: 3/8" = 1'-0"



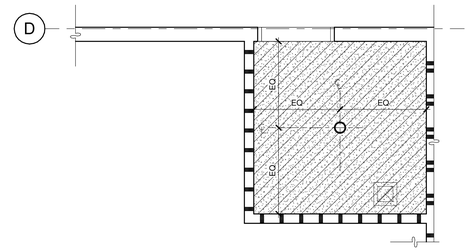

JANITOR 110 ELEVATION B 10
SCALE: 3/8" = 1'-0"



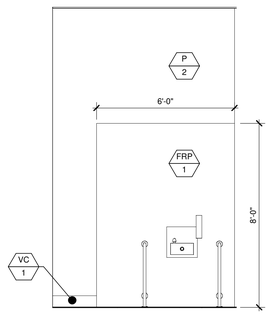

UNISEX 109 ELEVATION D 8
SCALE: 3/8" = 1'-0"



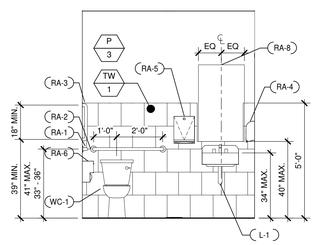

UNISEX 109 ELEVATION B 6
SCALE: 3/8" = 1'-0"



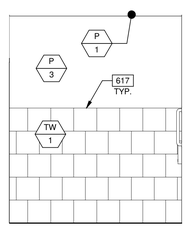

ENLARGED UNISEX 109 REFLECTED CEILING PLAN 2
SCALE: 3/8" = 1'-0"



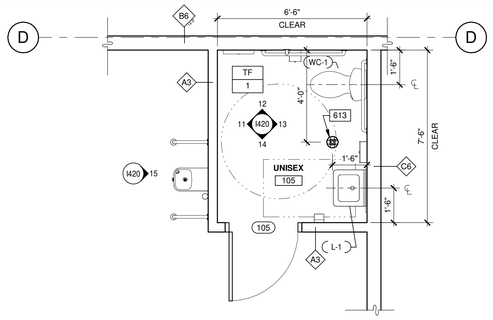

DRINKING FOUNTAIN
TYPICAL ELEVATION 15
SCALE: 3/8" = 1'-0"



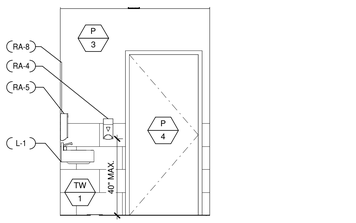

UNISEX 108 ELEVATION C 13
SCALE: 3/8" = 1'-0"



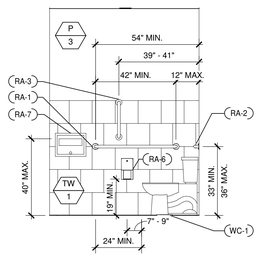

UNISEX 108 ELEVATION A 11
SCALE: 3/8" = 1'-0"



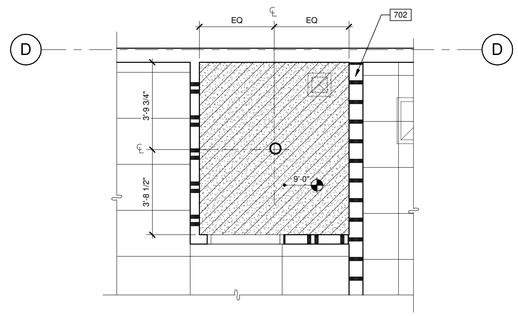

ENLARGED UNISEX 108 FLOOR PLAN 3
SCALE: 3/8" = 1'-0"




UNISEX 108 ELEVATION D 14
SCALE: 3/8" = 1'-0"




UNISEX 108 ELEVATION B 12
SCALE: 3/8" = 1'-0"




ENLARGED UNISEX 108 REFLECTED CEILING PLAN 4
SCALE: 3/8" = 1'-0"

## RESTROOM NOTES

SEE SHEETS **I000** FOR GENERAL NOTES

SEE SHEET **I620** FOR FINISH, PLUMBING FIXTURES, RESTROOM ACCESSORIES, EQUIPMENT AND LIGHT FIXTURE SCHEDULES

- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS THAT MIGHT ARISE.

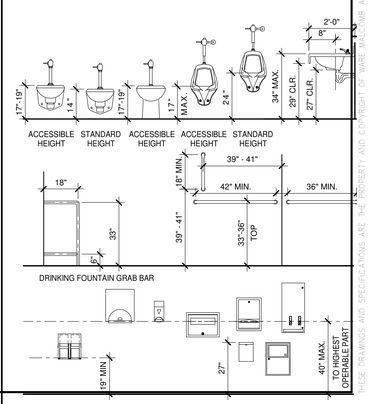
1. PROVIDE DRAIN WITH TRAP PRIMER FOR EACH RESTROOM IF THERE ARE TWO OR MORE FIXTURES. SLOPE FLOOR TO DRAIN A MIN. 1/8" PER FOOT.
2. VERIFY BUILDING STANDARD FOR WALL-HUNG/DROP-IN COUNTER SINK WHERE APPLICABLE.
3. TOILET PAPER DISPENSERS SHALL NOT BE OF TYPE THAT CONTROLS DELIVERY, OR THAT DO NOT ALLOW CONTINUOUS PAPER FLOW. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAX.
4. OPERABLE PARTS OF ALL ACCESSORIES SHALL COMPLY WITH ALL APPLICABLE ACCESSIBILITY CODES AND STANDARDS.

## KEYNOTES: -

613 DRAIN.
617 SATIN ANODIZED ALUMINUM SCHLUTER AT ALL EDGES.
702 CEILING OF THIS ROOM IS TO BE PROVIDED WITH (1) LAYER OF R-19 UNFACED FIBERGLASS INSULATION.

NOTE: ALL DIMENSIONS AND CALLOUTS TYPICAL FOR EACH ROOM, UNLESS NOTED OTHERWISE

## RESTROOM MOUNTING HEIGHTS




WARE MALCOMB
ARCHITECTURE CIVIL ENGINEERING
PLANNING PLANNING
INTERIORS BUILDING MEASUREMENT
4680 Chabot Dr. Suite #200
Pleasanton, CA 94588
P 925.244.6620

LICENSED ARCHITECT
JAMES ALLEN TAYLOR
No. C-34838
REGISTRATION EXPIRES 08-31-2025
STATE OF CALIFORNIA

U-HAUL TENANT IMPROVEMENT
4658 EVORA ROAD
CONCORD, CALIFORNIA 94520

ENLARGED RESTROOM PLAN AND RESTROOM ELEVATIONS

| DATE | REMARKS |
|---|---|
| 05/17/2024 | PERMIT SUBMITTAL |

| | |
|---|---|
| PA/PM: | A. GHOORCHIAN |
| DRAWN BY.: | A.C. |
| JOB NO.: | SNR24-0001-00 |

SHEET
I420

5/17/2024 11:27:36 AM

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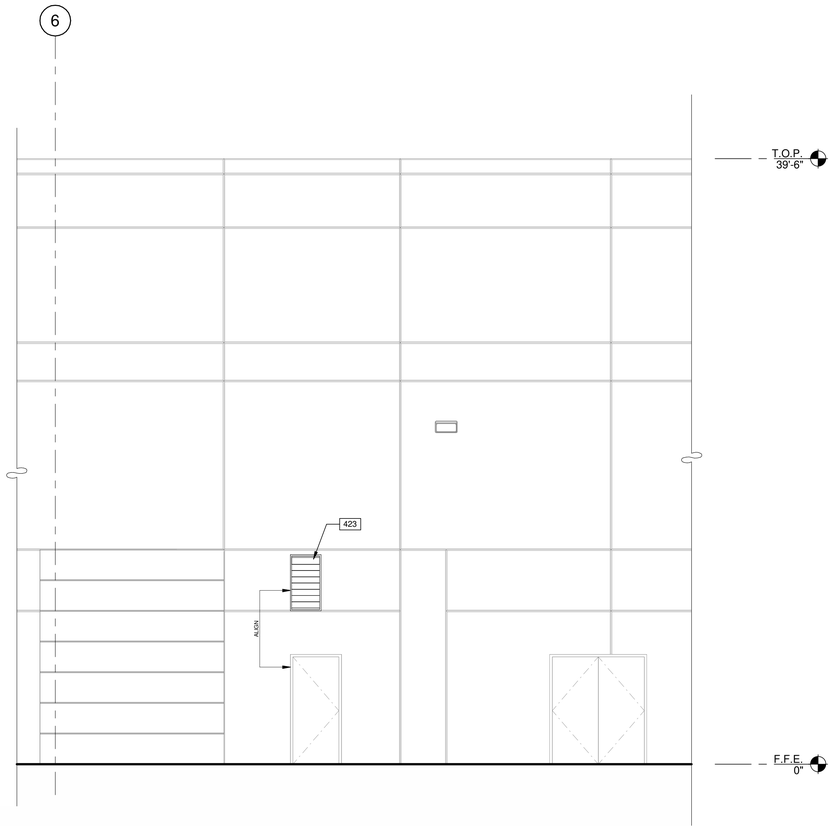
C:_Revit\000_ARCH_a0ooo#24sht.rvt

CAUTION: IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT




1/4"=1'-0"

0 2' 4' 8' 16'

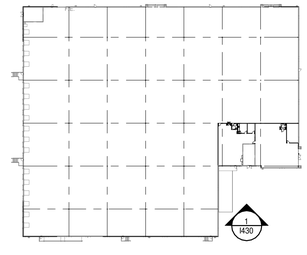
## ENLARGED SOUTH ELEVATION (1)

SCALE: 1/4" = 1'-0"

## KEYNOTES: ⬚

423 24" X 44" METAL LOUVER WITH FIRE DAMPER PER CBC 706A.1. PAINTED TO MATCH ADJACENT WALL. SEE MECHANICAL DRAWINGS.

## KEY PLAN




N

NOT TO SCALE

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INTERIORS BUILDING MEASUREMENT
4680 Chabot Dr. Suite #200
Pleasanton, CA 94588
P 925.244.5920

LICENSED ARCHITECT
JAMES ALLEN TAYLOR
No. C-34838
06-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

# U-HAUL TENANT IMPROVEMENT
4658 EVORA ROAD
CONCORD, CALIFORNIA 94520

ENLARGED EXTERIOR ELEVATION

| DATE | REMARKS |
|---|---|

| | |
|---|---|
| PA/PM: | A. GHOORCHIAN |
| DRAWN BY.: | A.C. |
| JOB NO.: | SNR24-0001-00 |

SHEET

I430

5/17/2024 11:27:39 AM

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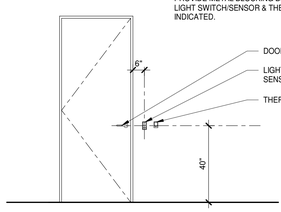
C:_Revit\000_ARCH_acaxx23d44.rvt

CAUTION: IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT




## L.T. SWITCH/T-STAT INSTALLATION 21

SCALE: 3/8" = 1'-0"

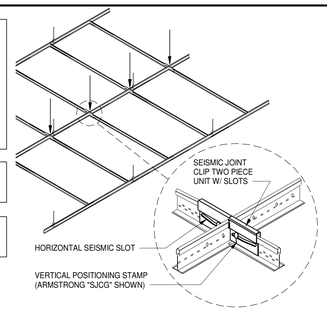
ARMSTRONG SEISMIC JOINT CLIP WORK WITH ARMSTRONG 15/16" AND 9/16" GRID SYSTEMS. (PRELUDE, SUPRAFINE AND SILHOUETTE
MAIN BEAM: SJMR
CROSS TEE: SJCG
SILHOUETTE AND INTERLUDE CROSS TEE: SJCSI
ICC ESR-1308

OR

USG ACM7
ICC ESR-1222

OR

CHICAGO METALIC SST
ICC ESR-2631




## SEISMIC JOINT CLIP 16

SCALE: 12" = 1'-0"

MEMBER DEPTH:
(EXAMPLE: 6" = 600 X 1/100 INCHES)
ALL MEMEBER DEPTHS ARE TAKEN IN 1/100 INCHES. FOR ALL "T" SECTIONS MEMBER DEPTH IS THE INSIDE DIMENSION.

FLANGE WIDTH:
(EXAMPLE: 1 5/8" = 1.625" ~ 162 X 1/100 INCHES) ALL FLANGE WIDTHS ARE TAKEN IN 1/100 INCHES.

600 S 162 54

STYLE:
(EXAMPLE: STUD OR JOIST SECTION = S ) THE FOUR ALPHA CHARACTERS UTILIZED BY THE DESIGNATOR SYSTEM ARE:
S = STUD OR JOIST, T = TRACK, U = CHANNEL, F = FURRING

MATERIAL THICKNESS:
(EXAMPLE: 0.054 IN. = 54 MILS; 1 MIL =1/1000 IN.) MATERIAL THICKNESS IS THE MINIMUM BASE METAL THICKNESS IN MILS. MINIMUM BASE METAL THICKNESS REPRESENTS 95% OF THE DESIGN THICKNESS.

CEILING SPAN TABLE NOTES:

1. VALUES ARE FOR SINGLE SPANS.
2. ALLOWABLE CEILING SPAN CALCULATIONS BASED ON 33KSI YIELD STRENGTH STEEL.
3. FOR FULLY BRACED CEILINGS, USE MID-SPAN BRACED VALUES.
4. END BEARING LENGTH = 1" MINIMUM.

| SECTION: | (MIL) | 4 PSF LATERAL SUPPORT OF COMPRESSION FLANGE UNSUPPORTED JOIST SPACING (IN.) O.C. 12" | 16" | 24" | MID-SPAN JOIST SPACING (IN.) O.C. 12" | 16" | 24" |
|---|---|---|---|---|---|---|---|
| 362S125 | 18 | 9'-3" | 8'-7" | 7'-7" | 12'-8" | 11'-7" | 10'-0" |
| 362S125 | 27 | 10'-8" | 9'-10" | 8'-10" | 15'-0" | 13'-11" | 12'-4" |
| 362S125 | 30 | 11'-0" | 10'-2" | 9'-1" | 15'-6" | 14'-4" | 12'-10" |
| 362S125 | 33 | 11'-5" | 10'-7" | 9'-5" | 16'-2" | 14'-10" | 13'-3" |
| 362S125 | 43 | 12'-8" | 11'-8" | 10'-5" | 17'-9" | 16'-5" | 14'-8" |
| 362S137 | 27 | 12'-0" | 11'-2" | 10'-0" | 17'-2" | 15'-11" | 14'-3" |
| 362S137 | 33 | 12'-11" | 11'-11" | 10'-8" | 18'-4" | 16'-11" | 15'-2" |
| 362S137 | 43 | 14'-3" | 13'-2" | 11'-8" | 20'-0" | 18'-6" | 16'-7" |
| 362S162 | 33 | 14'-8" | 13'-7" | 12'-2" | 20'-10" | 18'-11" | 16'-6" |
| 362S162 | 43 | 16'-2" | 14'-11" | 13'-4" | 22'-8" | 20'-7" | 18'-0" |
| 400S125 | 27 | 10'-11" | 10'-1" | 9'-1" | 15'-5" | 14'-3" | 12'-9" |
| 400S125 | 30 | 11'-4" | 10'-5" | 9'-4" | 16'-0" | 14'-9" | 13'-2" |
| 400S125 | 33 | 11'-9" | 10'-10" | 9'-8" | 16'-7" | 15'-3" | 13'-8" |
| 400S125 | 43 | 13'-0" | 12'-0" | 10'-8" | 18'-3" | 16'-10" | 15'-0" |
| 400S137 | 27 | 12'-4" | 11'-5" | 10'-3" | 17'-7" | 16'-4" | 14'-8" |
| 400S137 | 33 | 13'-3" | 12'-3" | 10'-11" | 18'-9" | 17'-4" | 15'-7" |
| 400S137 | 43 | 14'-7" | 13'-6" | 12'-0" | 20'-7" | 19'-0" | 17'-0" |
| 400S162 | 33 | 15'-0" | 13'-11" | 12'-6" | 21'-5" | 19'-10" | 17'-9" |
| 400S162 | 43 | 16'-7" | 15'-3" | 13'-8" | 23'-4" | 21'-7" | 19'-4" |
| 600S125 | 27 | 12'-5" ● | 11'-6" ● | 10'-4" ● | 17'-11" ● | 16'-6" ● | 14'-9" ● |
| 600S125 | 30 | 12'-9" | 11'-10" | 10'-8" | 18'-5" | 17'-1" | 15'-3" |
| 600S125 | 33 | 13'-2" | 12'-3" | 11'-0" | 18'-11" | 17'-7" | 15'-10" |
| 600S125 | 43 | 14'-6" | 13'-4" | 11'-11" | 20'-6" | 19'-0" | 17'-0" |
| 600S137 | 33 | 14'-11" | 13'-9" | 12'-5" | 21'-5" | 19'-10" | 17'-10" |
| 600S137 | 43 | 16'-3" | 15'-0" | 13'-5" | 23'-1" | 21'-5" | 19'-3" |
| 600S162 | 33 | 16'-11" | 15'-8" | 14'-1" | 24'-5" | 22'-8" | 20'-5" |
| 600S162 | 43 | 18'-5" | 17'-0" | 15'-3" | 26'-4" | 24'-4" | 21'-11" |

NOTE: ALL JOIST INFORMATION IS BASED ON STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) **ICC ESR-3064P**

## ALLOWABLE CEILING SPANS-L/240 12

SCALE: 12" = 1'-0"

MEMBER DEPTH:
(EXAMPLE: 6" = 600 X 1/100 INCHES)
ALL MEMEBER DEPTHS ARE TAKEN IN 1/100 INCHES. FOR ALL "T" SECTIONS MEMBER DEPTH IS THE INSIDE DIMENSION.

FLANGE WIDTH:
(EXAMPLE: 1 5/8" = 1.625" ~ 162 X 1/100 INCHES) ALL FLANGE WIDTHS ARE TAKEN IN 1/100 INCHES.

600 S 162 54

STYLE:
(EXAMPLE: STUD OR JOIST SECTION = S) THE FOUR ALPHA CHARACTERS UTILIZED BY THE DESIGNATOR SYSTEM ARE:
S = STUD OR JOIST, T = TRACK, U = CHANNEL, F = FURRING

MATERIAL THICKNESS:
(EXAMPLE: 0.054 IN. = 54 MILS; 1 MIL =1/1000 IN.) MATERIAL THICKNESS IS THE MINIMUM BASE METAL THICKNESS IN MILS. MINIMUM BASE METAL THICKNESS REPRESENTS 95% OF THE DESIGN THICKNESS.

INTERIOR NON-STRUCTURAL NON-COMPOSITE:

USE FOR FURRING PURPOSES ONLY, U.O.N.

| (S) STUD MEMBER | SPACING (IN.) O.C. | 5 PSF L/240 |
|---|---|---|
| 250S125-18 | 12" | 10'-6" |
| 250S125-18 | 16" | 9'-7" |
| 250S125-18 | 24" | 8'-3" |
| 250S125-33 | 12" | 13'-2" |
| 250S125-33 | 16" | 12'-0" |
| 250S125-33 | 24" | 10'-6" |
| 250S125-43 | 12" | 14'-4" |
| 250S125-43 | 16" | 13'-0" |
| 250S125-43 | 24" | 11'-5" |
| 362S125-18 | 12" | 14'-0" |
| 362S125-18 | 16" | 12'-2" |
| 362S125-18 | 24" | 9'-11" ● |
| 362S125-33 | 12" | 17'-7" |
| 362S125-33 | 16" | 16'-0" |
| 362S125-33 | 24" | 14'-0" |
| 362S125-43 | 12" | 19'-2" |
| 362S125-43 | 16" | 17'-5" |
| 362S125-43 | 24" | 15'-3" |
| 362S125-54 (50 KSI) | 12" | 20'-6" |
| 362S125-54 (50 KSI) | 16" | 18'-7" |
| 362S125-54 (50 KSI) | 24" | 16'-3" |
| 362S125-68 (50 KSI) | 12" | 21'-11" |
| 362S125-68 (50 KSI) | 16" | 19'-11" |
| 362S125-68 (50 KSI) | 24" | 17'-5" |
| 400S125-18 X | 12" | 14'-9" ● |
| 400S125-18 X | 16" | 12'-10" ● |
| 400S125-18 X | 24" | 10'-5" ● |
| 400S125-33 | 12" | 19'-0" |
| 400S125-33 | 16" | 17'-3" |
| 400S125-33 | 24" | 15'-1" |

| (S) STUD MEMBER | SPACING (IN.) O.C. | 5 PSF L/240 |
|---|---|---|
| 400S125-43 | 12" | 20'-9" |
| 400S125-43 | 16" | 18'-10" |
| 400S125-43 | 24" | 16'-5" |
| 400S125-54 (50 KSI) | 12" | 22'-2" |
| 400S125-54 (50 KSI) | 16" | 20'-2" |
| 400S125-54 (50 KSI) | 24" | 17'-7" |
| 400S125-68 (50 KSI) | 12" | 23'-8" |
| 400S125-68 (50 KSI) | 16" | 21'-6" |
| 400S125-68 (50 KSI) | 24" | 18'-10" |
| 600S125-27 X | 12" | 24'-4" ● |
| 600S125-27 X | 16" | 21'-6" ● |
| 600S125-27 X | 24" | 17'-7" ● |
| 600S125-33 | 12" | 26'-2" |
| 600S125-33 | 16" | 23'-9" |
| 600S125-33 | 24" | 20'-6" |
| 600S125-43 | 12" | 28'-9" |
| 600S125-43 | 16" | 26'-1" |
| 600S125-43 | 24" | 22'-10" |
| 600S125-54 (50 KSI) | 12" | 30'-9" |
| 600S125-54 (50 KSI) | 16" | 27'-11" |
| 600S125-54 (50 KSI) | 24" | 24'-5" |
| 600S125-68 (50 KSI) | 12" | 33'-0" |
| 600S125-68 (50 KSI) | 16" | 30'-0" |
| 600S125-68 (50 KSI) | 24" | 26'-2" |
| 800S125-43 | 12" | 36'-1" |
| 800S125-43 | 16" | 32'-9" |
| 800S125-43 | 24" | 28'-8" |
| 800S125-54 (50 KSI) | 12" | 38'-9" |
| 800S125-54 (50 KSI) | 16" | 35'-2" |
| 800S125-54 (50 KSI) | 24" | 30'-9" |
| 800S125-68 (50 KSI) | 12" | 41'-11" |
| 800S125-68 (50 KSI) | 16" | 38'-1" |
| 800S125-68 (50 KSI) | 24" | 33'-4" |

● INDICATES THAT WEB STIFFENERS ARE REQUIRED AT ENDS

● INDICATES THAT WEB STIFFENERS ARE REQUIRED AT MID-SPAN

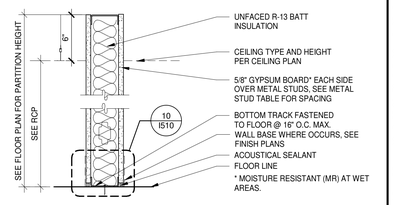
X INDICATES THAT WEB STIFFENERS ARE REQUIRED AT ALL SUPPORT POINTS AND CONCENTRATED LOADS

## LIMITING PARTITION HEIGHT TABLE-L/240 7

SCALE: 12" = 1'-0"

**PARTITION TAG MODIFIERS:**

A2 = 2-1/2" METAL STUDS
A3 = 3-5/8" METAL STUDS
A4 = 4" METAL STUDS
A6 = 6" METAL STUDS
A8 = 8" METAL STUDS

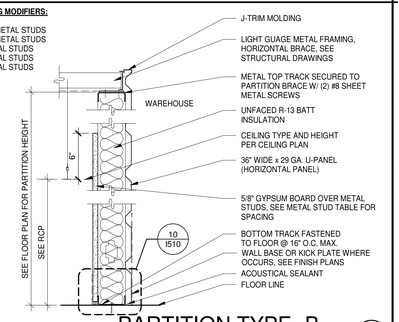



## PARTITION TYPE -A- 1

PARTIAL HEIGHT PARTITION SCALE: 1 1/2" = 1'-0"

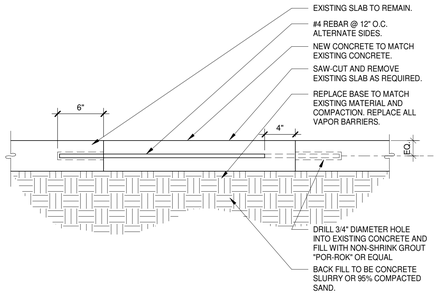
**PARTITION TAG MODIFIERS:**

B2 = 2-1/2" METAL STUDS
B3 = 3-5/8" METAL STUDS
B4 = 4" METAL STUDS
B6 = 6" METAL STUDS
B8 = 8" METAL STUDS




## PARTITION TYPE -B- 2

PARTIAL HEIGHT PARTITION SCALE: 1 1/2" = 1'-0"

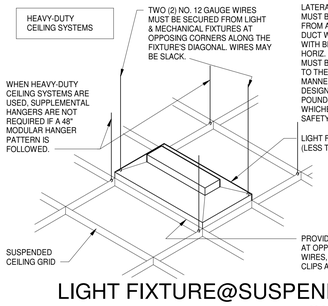



## SAW-CUT CONCRETE SLAB REPAIR 22

SCALE: 1 1/2" = 1'-0"

HEAVY-DUTY CEILING SYSTEMS

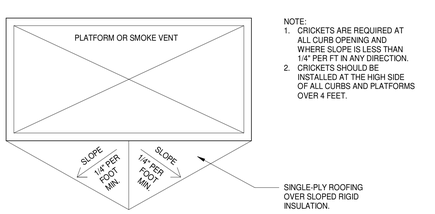
WHEN HEAVY-DUTY CEILING SYSTEMS ARE USED, SUPPLEMENTAL HANGERS ARE NOT REQUIRED IF A 48" MODULAR HANGER PATTERN IS FOLLOWED.




LATERAL FORCE BRACING MEMBERS MUST BE SPACED A MINIMUM OF 6" FROM ALL HORIZONTAL PIPING OR DUCT WORK THAT IS NOT PROVIDED WITH BRACING RESTRAINTS FOR HORIZ. FORCES. BRACING WIRES MUST BE ATTACHED TO THE GRIDAND TO THE STRUCTURE IN SUCH A MANNER THAT THEY CAN SUPPORT A DESIGN LOAD OF NOT LESS THAN 200 POUNDS OR THE ACTUAL LOADS, WHICHEVER IS GREATER, WITH A SAFETY FACTOR OF 2.

## LIGHT FIXTURE@SUSPENDED CLNG. 17

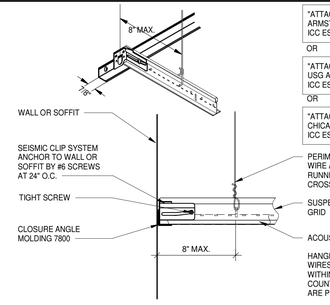
SCALE: 12" = 1'-0"




NOTE:
1. CRICKETS ARE REQUIRED AT ALL CURB OPENING AND WHERE SLOPE IS LESS THAN 1/4" PER FT IN ANY DIRECTION.
2. CRICKETS SHOULD BE INSTALLED AT THE HIGH SIDE OF ALL CURBS AND PLATFORMS OVER 4 FEET.

## CRICKET 23

SCALE: 1/2" = 1'-0"




"ATTACHED WALL" ARMSTRONG BERC2
ICC ESR-1308

OR

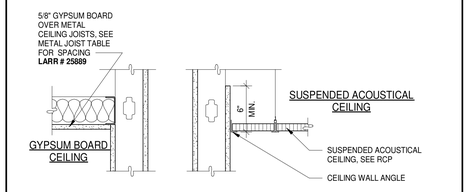
"ATTACHED WALL" USG ASM7
ICC ESR-1222

OR

"ATTACHED WALL" CHICAGO METALIC
ICC ESR-2631

## ATTACHED CLOSURE ANGLE 18

SCALE: 3" = 1'-0"




## CEILING TRANSITION TO WALL/ PARTITION 13

SCALE: 1 1/2" = 1'-0"

**PARTITION TYPE NOTES:**

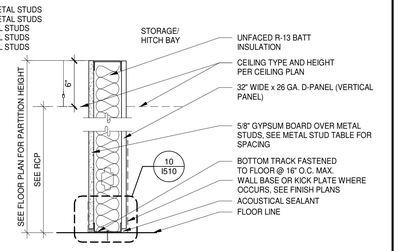
1. INTERIOR GYP. BD. PARTITION SHALL CONFORM TO **ICC-ESR-1338**
2. SEE LIMITING PARTITION HEIGHT TABLE FOR METAL STUD GAUGE AND SPACING BASED ON PARTITION HEIGHTS STUD SIZES AS NOTED ON EACH PARTITION TYPE.
3. MAX. STUD SPACING SHALL BE 24".
4. MINIMUM FASTENER SIZE SHALL BE #6 - 1-1/4" SCREWS.
5. MAXIMUM FASTENER SPACING SHALL BE 12" FIELD AND 8" AT EDGES.
6. ALL PARTITION METAL STUDS TO BE 3-5/8", U.O.N.

## PARTITION TYPE NOTES 8

SCALE: 1" = 1'-0"

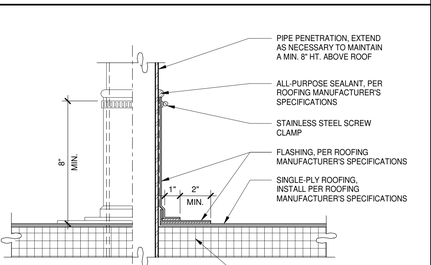
**PARTITION TAG MODIFIERS:**

C2 = 2-1/2" METAL STUDS
C3 = 3-5/8" METAL STUDS
C4 = 4" METAL STUDS
C6 = 6" METAL STUDS
C8 = 8" METAL STUDS



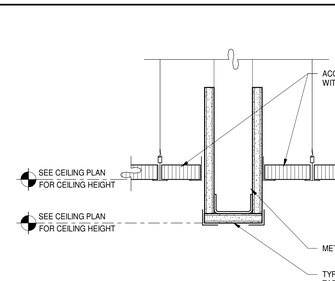

## PARTITION TYPE -C- 3

PARTIAL HEIGHT PARTITION SCALE: 1 1/2" = 1'-0"



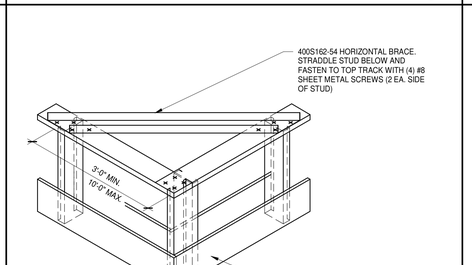

## ROOF PENETRATION FLASHING 24

SCALE: 3" = 1'-0"




## CEILING HEADER TRANSITION 19

SCALE: 3" = 1'-0"




## HORIZONTAL PARTITION BRACE 14

SCALE: 12" = 1'-0"

DESIGN BUILD METAL STUD:

1. STEEL STUDS AND RUNNERS: MINIMUM BASE-METAL THICKNESS:
a. 25 GAUGE UNLESS INDICATED OTHERWISE ON DRAWINGS OR BELOW:
1) INTERIOR METAL STUD/GYPSUM BOARD ASSEMBLIES, TYPICAL LOCATIONS: WITHSTAND LATERAL LOADING (AIR PRESSURE) OF 5 PSF WITH DEFLECTION LIMIT NOT MORE THAN L/240 OF PARTITION HEIGHT.
2) INTERIOR METAL STUD/GYPSUM BOARD ASSEMBLIES AT LOCATIONS WITH CERAMIC TILE OR OTHER HARD SURFACE FINISHES: WITHSTAND TYPICAL LATERAL LOADING (AIR PRESSURE) WITH DEFLECTION LIMIT NOT MORETHAN L/360 OF PARTITION HEIGHT, MINIMUM 20 GAUGE STUDS AT 16" ON CENTER
3) WHERE WALL-MOUNTED EQUIPMENT, WOODWORK, AND CASEWORK ITEMS ARE INDICATED OR ELSEWHERE AS SHOWN ON DRAWINGS, PROVIDE MINIMUM 16 GAUGE STUDS.
4) AT PARTITIONS SCHEDULED TO RECEIVE TILE BACKING PANELS OR CERAMIC TILE FINISH, PROVIDE MINIMUM 22 GAUGE STUDS.
5) AT JAMBS OF OPENINGS PROVIDE TWO MINIMUM 20 GAUGE STUDS.
6) CEILINGS: AT CEILINGS USING MOLD-MILDEW RESISTANT GYPSUM, FRAMING TO BE 16 INCHES O.C. FOR 5/8" GYPSUM.
7) REFER TO DIVISION 5 FOR COLD FORMED STUD FRAMING WHICH IS EXPOSED TO WIND LOADS AND FOR STUDS CARRYING HEAVY VERTICAL LOADS (STONE TILE THICKER THAN 3/4 INCH, ETC)

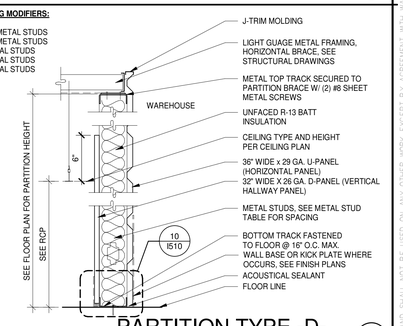
b. WHERE PARTITION HEIGHTS EXCEED STUD MANUFACTURER'S RECOMMENDED SPANS, PROVIDE STRUCTURAL CALCULATIONS.

## DESIGN BUILD METAL STUD 9

SCALE: 1" = 1'-0"

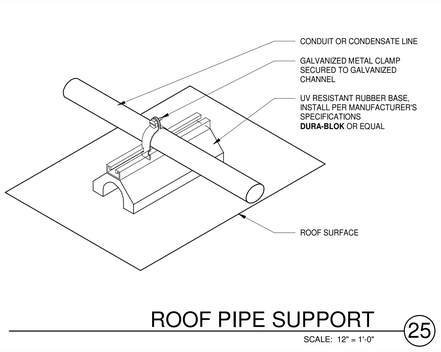
**PARTITION TAG MODIFIERS:**

D2 = 2-1/2" METAL STUDS
D3 = 3-5/8" METAL STUDS
D4 = 4" METAL STUDS
D6 = 6" METAL STUDS
D8 = 8" METAL STUDS



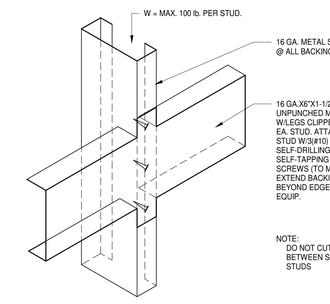

## PARTITION TYPE -D- 4

PARTIAL HEIGHT PARTITION SCALE: 1 1/2" = 1'-0"



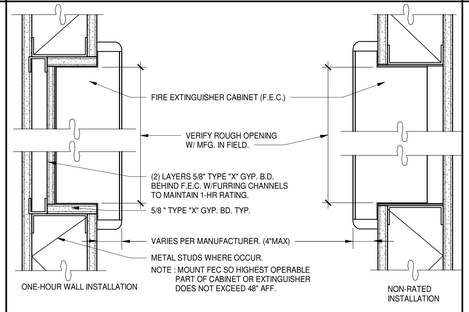

## ROOF PIPE SUPPORT 25

SCALE: 12" = 1'-0"



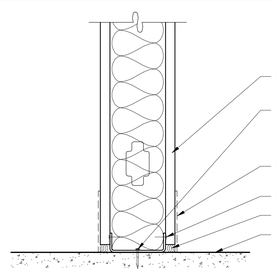

## BACKING DETAIL FOR MISC. EQUIP. 20

SCALE: 12" = 1'-0"




## FIRE EXTINGUISHER CABINET 15

SCALE: 3" = 1'-0"



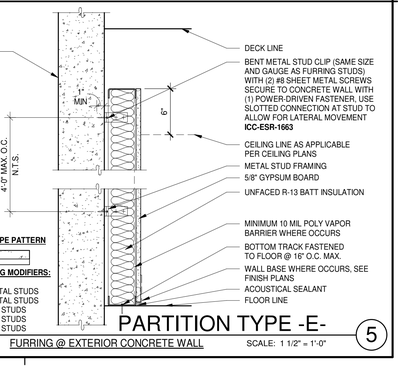

NON-RATED PARTITION

## PARTITION BASE 10

SCALE: 3" = 1'-0"

**PARTITION TAG MODIFIERS:**

E2 = 2-1/2" METAL STUDS
E3 = 3-5/8" METAL STUDS
E4 = 4" METAL STUDS
E6 = 6" METAL STUDS
E8 = 8" METAL STUDS




PARTITION TYPE PATTERN

## PARTITION TYPE -E- 5

FURRING @ EXTERIOR CONCRETE WALL SCALE: 1 1/2" = 1'-0"

WARE MALCOMB
ARCHITECTURE CIVIL ENGINEERING
PLANNING LANDSCAPE
INTERIORS BUILDING MEASUREMENT
4658 Chabot Dr, Suite #200
Pleasanton, CA 94588
P 925.244.3820

LICENSED ARCHITECT
KAMRAN ALLEN TAHMASEBI
No. C-34838
08-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

# U-HAUL TENANT IMPROVEMENT
4658 EVORA ROAD
CONCORD, CALIFORNIA 94520

DETAILS

| DATE | REMARKS |
|---|---|
| 05/17/2024 | PERMIT SUBMITTAL |

| | |
|---|---|
| PA/PM: | A. GHOORCHIAN |
| DRAWN BY.: | A.C. |
| JOB NO.: | SNR24-0001-00 |

SHEET
I510

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5/17/2024 11:27:42 AM

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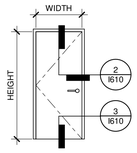
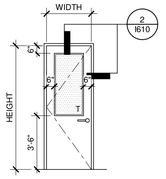
CAUTION: IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT

## DOOR TYPES

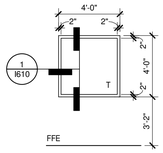



F1
SOLID FLUSH




G1
VISION PANEL

## WINDOW TYPES



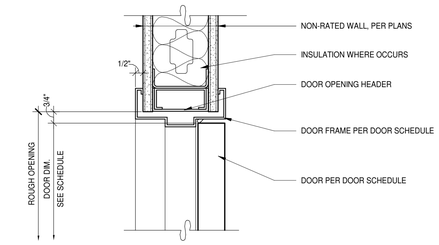

W1

## NEW DOOR SCHEDULE

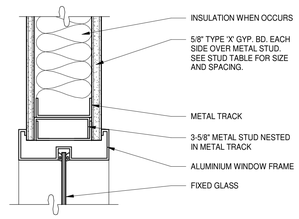
| DOOR NO. | ROOM NAME. | DOOR TYPE ELEVATION | DOOR SIZE WIDTH | DOOR SIZE HEIGHT | DOOR SPECIFICATION | FRAME SPECIFICATION | FIRE RATING (MINUTES) | HARDWARE GROUP | OPERATING HARDWARE | DOOR COMPONENTS PANIC DEVICE | CARD READER | CLOSER S: SURFACE X: CONCEALED | DOUBLE DOORS COORD. | DOUBLE DOORS ASTRAGAL | SEALS A: ACOUSTIC W: WEATHER | DOOR BOTTOM | HOLD OPENS | DOOR STOP POSITION C: OVERHEAD W: WALL | KICKPLATES | COAT HOOK | NOTE: AT EXISTING DOORS WHICH REMAIN, HARDWARE INDICATED IN THIS SCHEDULE IS NEW AND TO BE ADDED TO THE EXISTING ASSEMBLY. (X) LETTER IN PARENTHESIS INDICATES EXISTING COMPONENT. DOOR KEYNOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 103 | SHOWROOM | G1 | 3'-0" | 7'-0" | HM/GLS | HM | | B | | | | S | | | | | | W | | | 1 |
| 104 | STORAGE ROOM | F1 | 3'-0" | 7'-0" | HM | HM | | B | | | | S | | | | | | W | | | 1 |
| 105 | UNISEX | F1 | 3'-0" | 7'-0" | HM | HM | | A | | | | S | | | | | | W | 2 | 1 | 1 |
| 106 | HITCH BAY | G1 | 3'-0" | 7'-0" | HM/GLS | HM | | B | | | | S | | | | | | W | | | 1 |
| 107 | OFFICE | F1 | 3'-0" | 7'-0" | HM | HM | | C | | | | | | | A | | | W | | | 1 |
| 108 | BREAKROOM | F1 | 3'-0" | 7'-0" | HM | HM | | C | | | | | | | | | | W | | | 1 |
| 109 | UNISEX | F1 | 3'-0" | 7'-0" | HM | HM | | A | | | | S | | | | | | W | 2 | 1 | 1 |

## EXISTING DOOR SCHEDULE

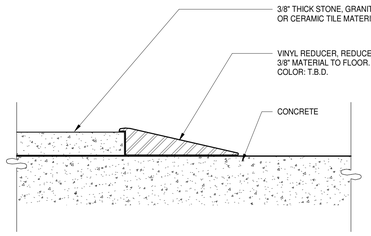
| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 111 | WAREHOUSE | F1 | 3'-0" | 7'-0" | | | | | | | | | | | | | | | | | |
| 112 | WAREHOUSE | F1 | 3'-0" | 7'-0" | | | | | | | | | | | | | | | | | |
| 113 | HITCH BAY | SD2 | 12'-0" | 14'-0" | | | | | | | | | | | | | | | | | |
| 114 | HITCH BAY | F1 | 3'-0" | 7'-0" | | | | | | | | | | | | | | | | | |
| 116 | (E) ELECTRICAL ROOM | F2 | 6'-0" | 7'-0" | | | 90 | | | | | | | | | | | | | | |
| 117 | WAREHOUSE | F1 | 3'-0" | 7'-0" | | | | | | | | | | | | | | | | | |
| 118 | WAREHOUSE | F1 | 3'-0" | 7'-0" | | | | | | | | | | | | | | | | | |
| 119 | SHOWROOM | SF2 | 6'-0" | 7'-0" | | | | | | | | | | | | | | | | | |
| 202 | WAREHOUSE | SF2 | 6'-0" | 7'-0" | | | | | | | | | | | | | | | | | |
| 203 | WAREHOUSE | SD1 | 9'-0" | 10'-0" | | | | | | | | | | | | | | | | | |
| 204 | WAREHOUSE | SD1 | 9'-0" | 10'-0" | | | | | | | | | | | | | | | | | |
| 230 | WAREHOUSE | SD1 | 9'-0" | 10'-0" | | | | | | | | | | | | | | | | | |
| 231 | WAREHOUSE | SD1 | 9'-0" | 10'-0" | | | | | | | | | | | | | | | | | |
| 234 | WAREHOUSE | SD1 | 9'-0" | 10'-0" | | | | | | | | | | | | | | | | | |
| 235 | WAREHOUSE | SD1 | 9'-0" | 10'-0" | | | | | | | | | | | | | | | | | |
| 236 | WAREHOUSE | SD1 | 9'-0" | 10'-0" | | | | | | | | | | | | | | | | | |
| 237 | WAREHOUSE | SD1 | 9'-0" | 10'-0" | | | | | | | | | | | | | | | | | |
| 238 | WAREHOUSE | SD1 | 9'-0" | 10'-0" | | | | | | | | | | | | | | | | | |
| 239 | WAREHOUSE | SD1 | 9'-0" | 10'-0" | | | | | | | | | | | | | | | | | |
| 243 | WAREHOUSE | SD1 | 9'-0" | 10'-0" | | | | | | | | | | | | | | | | | |
| 244 | WAREHOUSE | SD1 | 9'-0" | 10'-0" | | | | | | | | | | | | | | | | | |
| 245 | WAREHOUSE | SD1 | 9'-0" | 10'-0" | | | | | | | | | | | | | | | | | |
| 246 | WAREHOUSE | SD1 | 9'-0" | 10'-0" | | | | | | | | | | | | | | | | | |
| 247 | WAREHOUSE | SD1 | 9'-0" | 10'-0" | | | | | | | | | | | | | | | | | |
| 251 | WAREHOUSE | F1 | 3'-0" | 7'-0" | | | | | | | | | | | | | | | | | |
| 252 | WAREHOUSE | F1 | 3'-0" | 7'-0" | | | | | | | | | | | | | | | | | |
| 253 | WAREHOUSE | F1 | 3'-0" | 7'-0" | | | | | | | | | | | | | | | | | |
| 254 | WAREHOUSE | F1 | 3'-0" | 7'-0" | | | | | | | | | | | | | | | | | |
| 255 | WAREHOUSE | SD1 | 9'-0" | 10'-0" | | | | | | | | | | | | | | | | | |
| 256 | WAREHOUSE | F1 | 3'-0" | 7'-0" | | | | | | | | | | | | | | | | | |
| 257 | WAREHOUSE | SD1 | 9'-0" | 10'-0" | | | | | | | | | | | | | | | | | |
| 258 | (E) FIRE PUMP ROOM | F2 | 6'-0" | 7'-0" | | | 90 | | | | | | | | | | | | | | |
| 259 | WAREHOUSE | F1 | 3'-0" | 7'-0" | | | | | | | | | | | | | | | | | |
| SD2 | WAREHOUSE | SD2 | 12'-0" | 14'-0" | | | | | | | | | | | | | | | | | |




DOOR HEAD (JAMB SIM.) 2
SCALE: 3" = 1'-0"




WINDOW HEAD (JAMB & SILL SIM) 1
SCALE: 3" = 1'-0"




TILE FLOORING TO CONCRETE 3
SCALE: 12" = 1'-0"

## DOOR HARDWARE

### HARDWARE SPECIFICATIONS

**BUTT HINGES:**
1. IVES 3 KNUCKLE 3CB1 SERIES (OR 5 KNUCKLE 5BB1 SERIES) OR APPROVED EQUAL.
2. SIZE:
   a. 3-1/2" X 3-1/2" X 0.123 GA FOR 1-3/8" DOORS.
   b. 4-1/2" X 4-1/2" X 0.134 GA FOR 1-3/4" DOORS TO 36" WIDE.
   c. 4-1/2" X 4-1/2" X 0.180 GA FOR 1-3/4" FOR DOORS GREATER THAN 36" TO 42" WIDE.
   d. 5" X 4-1/2" X 0.190 GA FOR 1 3/4" FOR DOORS GREATER THAN 42" TO 48" WIDE.
   e. MANUFACTURER'S GUIDELINES FOR ALL OTHER DOOR THICKNESSES.
3. QUANTITY:
   1-1/2 PAIRS FOR DOORS 60" TO 90" IN HEIGHT AND AN ADDITIONAL 1/2 PAIR FOR EVERY 30" OR FRACTION THEREOF.
4. MATERIAL:
   a. ALL EXTERIOR OUTSWING DOOR BUTTS SHALL BE MADE OF NON-FERROUS MATERIAL AND SHALL HAVE STAINLESS STEEL HINGE PINS.
   b. ALL EXTERIOR OUTSWING DOORS SHALL HAVE NON-REMOVEABLE PINS.
   c. ALL FIRE RATED DOORS OR DOORS WITH CLOSING DEVICES SHALL HAVE BALL BEARING STEEL HINGES.

**PIVOTS:**
1. IVES 7000 SERIES.
2. HIGH STRENGTH FORCED BRONZE OR STAINLESS STEEL TILT-ON PRECISION BEARING AND BEARING PIN.
   a. BOTTOM AND INTERMEDIATE PIVOTS: ADJUSTABILITY OF MINUS 1/16", PLUS 1/8".

**CLOSING DEVICES:**
1. CONCEALED - FLOOR: DORMA BTS 80 SERIES.
   a. HYDRAULICALLY CONTROLLED, CEMENT CASE, MAXIMUM DEGREE DEAD STOP PERMITTED BY TRIM OR ADJACENT STRUCTURE. PROVIDE SPECIAL PINS, FLOOR PANS, AND LONGER SPINDLES TO ACCOMMODATE FLOOR AND JAMB CONDITIONS.
2. CONCEALED - OVERHEAD: LCN 2030 SERIES OR APPROVED EQUAL.
   a. CONCEALED IN TRACK BUMPERS WHERE SCHEDULED.
3. SURFACE - LCN 1461 SERIES OR APPROVED EQUAL.
   a. PROVIDE "DS" DESIGNER SERIES COVERS AT ALL DOORS VISIBLE BY THE PUBLIC (STANDARD COVERS AT MAINTENANCE ROOMS).
4. MAX. EFFORT TO OPERATE DOORS:
   a. EXTERIOR DOORS - 5 LBS.
   b. INTERIOR DOORS - 5 LBS.
   c. FIRE RATED DOORS - 15 LBS.
5. A CLOSING DEVICE MUST BE USED ON ALL FIRE-RATED DOORS.

**STOPS:**
1. IVES WS405/FS436 SERIES DOOR STOPS:
   a. WS406/407 CVX/CCV WALL STOP OR APPROVED EQUAL, TYPICAL U.O.N.
   b. FS436/R435 DOME FLOOR STOP (SIZE BASE TO FIT) OR APPROVED EQUAL - WHERE WALL STOP WILL NOT WORK.
   c. WHERE WALL OR FLOOR STOPS WILL NOT WORK PROVIDE AN OVERHEAD STOP OR SPRING "CRUSH" ARM ON THE CLOSER.

**MAGNETIC HOLDERS:**
1. LCN SEM7800 (24 VDC/VAC) MAGNETIC HOLDER OR APPROVED EQUAL AT FIRE-RATED AUTOMATIC RELEASE DOORS.
   a. PROVIDE EXTENDED ARMATURES AS REQUIRED TO SUIT CONDITIONS.

**DOOR COORDINATORS (COORDINATORS TO MATCH DOOR FRAME):**
1. IVES COR SERIES OR APPROVED EQUAL, SIZED TO FIT FROM STOP TO STOP.
   a. PROVIDE FULL LENGTH BRACKET FOR MOUNTING TO ALUMINUM FRAME.
2. IF JAMB STOP DOES NOT PERMIT USE OF IVES COR SERIES, SUBSTITUTE IVES CORG SERIES, GRAVITY COORDINATORS.

**KICK PLATES:**
1. IVES 8400/8402 SERIES OR APPROVED EQUAL.
2. PROVIDE 8400 SERIES AT NON-RATED DOORS AND 8402 SERIES AT FIRE RATED DOORS.
3. SIZE AS FOLLOWS:
   a. 10"x 2" LESS THAN DOOR WIDTH - SINGLE DOOR
   b. 10"x 1" LESS THAN DOOR WIDTH - PAIR OF DOORS.

**WEATHER STRIPPING:**
1. ZERO INTERNATIONAL (ZER) OR APPROVED EQUAL:
   a. THRESHOLDS - ZER 545 OR AS SHOWN ON SILL DETAILS AND AS REQUIRED TO SUIT CONDITIONS AT EXTERIOR DOORS.
   b. HEAD RAIN DRIPS - ZER 142 OR AS SHOWN ON HEAD DETAILS AND AS REQUIRED TO SUIT CONDITIONS AT EXTERIOR DOORS. (OMIT AT DOOR SHELTERED WITH OVERHANGS).
   c. BOTTOM RAIN DRIPS - ZER 11 OR AS SHOWN ON SILL DETAILS AND AS REQUIRED TO SUIT CONDITIONS. (AT IN-SWING DOORS).
   d. DOOR BOTTOMS/SHOES - ZER 8198 OR AS SHOWN ON SILL DETAILS AND REQUIRED TO SUIT CONDITIONS AT OUT-SWINGING EXTERIOR DOORS.
   e. DOOR BOTTOMS/SHOES - ZER 381 OR AS SHOWN ON SILL DETAILS AND AS REQUIRED TO SUIT CONDITIONS AT IN-SWINGING EXTERIOR DOORS.
   f. HEAD AND JAMB SEALS - ZER 8042 (OR AS REQUIRED TO MEET FIRE LABEL RATING) AT EXTERIOR DOORS AND FIRE RATED DOORS. (OMIT AT ALUMINUM FRAMES).
   g. ASTRAGALS - 383 AT NON-RATED WOOD DOORS AND 383FS AT FIRE RATED WOOD DOORS. (SEE LATCHGUARDS FOR EXTERIOR AND HOLLOW METAL DOORS)

**LATCHGUARDS:**
1. IVES LG SERIES OR APPROVED EQUAL FOR SINGLE OUTSWING EXTERIOR DOORS.
2. ZER 445P SERIES ASTRAGAL OR APPROVED EQUAL FOR PAIRS OF EXTERIOR HOLLOW METAL DOORS WITHOUT PANIC HARDWARE.

**KEYING:**
1. ON NEW CONSTRUCTION: PROVIDE SCHLAGE LARGE FORMAT INTERCHANGEABLE CORE CYLINDERS WITH CONSTRUCTION CORES AND A PERMANENT CORE.
2. ON EXISTING WORK: MATCH BUILDING STANDARD OR AS DIRECTED BY OWNER AND ARCHITECT.

**BOLTS:**
1. MANUAL FLUSH BOLTS:
   a. IVES FB458 OR APPROVED EQUAL
   b. LENGTH TO SET AS FOLLOWS:
      A. BOTTOM BOLTS 12"
      B. TOP BOLT 12" FOR DOORS TO 84" IN HEIGHT
      C. TOP BOLT 12" PLUS AS 1" FOR EVERY ADDITIONAL INCH OF DOOR HEIGHT OVER 84"
   c. DO NOT USE ANY ROOMS NORMALLY OCCUPIED BY PEOPLE
2. AUTOMATIC FLUSH BOLTS:
   a. IVES FB30 OR APPROVED EQUAL FOR HOLLOW METAL DOORS
   b. IVES FB40 OR APPROVED EQUAL FOR WOOD DOORS
   c. AUTOMATIC FLUSH BOLTS MUST BE USED AT ALL PAIRS OR FIRE RATED DOORS.

### OPERATING HARDWARE

**1. CYLINDRICAL LOCKS**
SCHLAGE "ND" SERIES LATCHING HARDWARE (FOR USE ON INTERIOR DOORS ONLY)

LEVER DESIGN: "SPARTA"
FINISH: #626 SATIN CHROMIUM PLATED (OR APPROVED EQUAL)
a. ND80 - STOREROOM LOCK
b. ND50 - OFFICE LOCK
c. ND53 - ENTRANCE LOCK
d. ND40S - BATH PRIVACY LOCK
e. ND10S - PASSAGE LATCH
f. ND60 - DOUBLE CYLINDER VESTIBULE LOCK
g. ND70 - CLASSROOM LOCK
h. ND75 - DOUBLE CYLINDER CLASSROOM LOCK
i. ND80EL/EU - ELECTRIC LOCKSET (FAIL SAFE OR FAIL SECURE AS REQUIRED)

**2. MORTISE LOCKS**
SCHLAGE "L" SERIES LATCHING HARDWARE FOR USE ON EXTERIOR AND INTERIOR DOORS

LEVER DESIGN: "17A"
FINISH: #626 SATIN CHROMIUM PLATED (OR APPROVED EQUAL)
a. L9080 - STORREROOM LOCK
b. L9050 - OFFICE LOCK
c. L9453 - ENTRANCE LOCK
d. L9040 - BATH PRIVACY LOCK
e. L9010 - PASSAGE LATCH
f. L9060 - DOUBLE CYLINDER VESTIBULE LOCK
g. L9070 - CLASSROOM LOCK
h. L9071 - DOUBLE CYLINDER CLASSROOM LOCK
i. L9092EL/EU - ELECTRIC LOCKSET (FAIL SAFE OR FAIL SECURE AS REQUIRED)

**3. PANIC HARDWARE**
VON DUPRIN 98/99 SERIES, (OR APPROVED EQUAL)

a. RIM DEVICE: 99-L SINGLE DOOR
b. MORTISE DEVICE: 9975-L SINGLE OR PAIR DOOR
c. CONCEALED VERTICAL CABLE DEVICE: 9949-L PAIRS OF DOORS.
   DELETE: ASTRAGAL, CORDINATOR AND FLUSH BOLTS
   PROVIDE: ZERO 55X155 MEETING STILE SEALS AT NON-RATED DOORS AND ZERO 55FSX555FS MEETING STILE SEALS AT FIRE RATED DOORS.
d. SURFACE VERTICAL ROD DEVICE: 9927L PAIR OF DOORS
   DELETE: ASTRAGAL, CORDINATOR AND FLUSH BOLTS
   PROVIDE: ZERO 55X155 MEETING STILE SEALS AT NON-RATED DOORS AND ZERO 55FSX555FS MEETING STILE SEALS AT FIRE RATED DOORS.
e. USE SCHLAGE 1-1/4" CYLINDER.
f. USE FIRE RATED HARDWARE AS REQUIRED FOR FIRE RATING.

**4. PUSH/PULL PLATES**
IVES 8000 SERIES

a. 8200 4 X 16 PUSH PLATE
b. 8305-6 4 X 16 PULL PLATE

**5. CRL ALL GLASS DOORS HARDWARE**

FINISH: #626 SATIN CHROMIUM PLATED (OR APPROVED EQUAL)
a. PA100 PANIC HANDLE
b. PA100 PANIC HANDLE WITH KEY CYLINDER
c. DB100-A DEADBOLT LOCK HANDLE WITH KEY CYLINDER
d. PUSH AND/OR PULL HANDLES AS SHOWN ON DOOR ELEVATIONS, AS SPECIFIED OR SELECTED BY ARCHITECT. IF NONE SHOWN OR SPECIFIED, INCLUDE IVES #9266F LONG DOOR PULL(S) AND ASK FOR DIRECTION.

### HARDWARE GROUPS

A. RESTROOM DOOR
(3) HINGES
(1) LEVER HANDLE LOCK SET
(1) SCHLAGE OCCUPANCY INDICATOR DEADBOLT
(1) ALUMINUM TILE EDGE / THRESHOLD 1/2" MAX.
(3) SILENCERS
(1) WALL BUMPER PER SCHEDULE

B. SHOWROOM TO HITCH BAY
(3) HINGES
(1) LEVER HANDLE LOCK SET
(1) TRILOGY T2 CODED LOCK @ HITCH BY SIDE (COORDINATE W/ UHI SECURITY)
(1) SELF CLOSER
(3) SILENCERS
(1) WALL BUMPER
(1) ALUMINUM THRESHOLD 1/2" MAX.

C. OFFICE/BREAKROOM DOOR
(3) HINGES
(1) LEVER HANDLE LOCK SET
(3) SILENCERS
(1) WALL BUMPER

### DOOR AND FRAME SPECIFICATIONS

F1 DOOR: GENERAL PURPOSE INTERIOR DOOR
MANUFACTURER: T.B.D.
STYLE/SERIES: T.B.D.
CONSTRUCTION: FLUSH METAL 18 GA. WITH RIGID POYSTEYRNE CORE 20 GA. H.M. FRAME
FINISH: FACTORY PRIMED; FIELD PAINT PER SCHEDULE
THICKNESS: 1 3/4"

G1 DOOR: GLAZED SWING DOOR
MANUFACTURER: T.B.D.
STYLE/SERIES: T.B.D.
CONSTRUCTION: FLUSH METAL 18 GA. WITH RIGID POYSTEYRNE CORE 16 GA. H.M. FRAME
FINISH: FACTORY PRIMED; FIELD PAINT PER SCHEDULE
THICKNESS: 1 3/4"
NOTE: "T" DENOTES TEMPERED SAFETY GLASS; VISION LITE

### DOOR KEY NOTES

1. FACTOR PRIMED - FIELD PAINT TO MATCH ADJACENT WALLS

### GENERAL NOTES

1. SEE SHEET I000 FOR GENERAL DOOR NOTES.
2. ALL HARDWARE SHALL MEET ALL APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES.
3. REFER TO THE FLOOR PLANS AND SPECIFICATIONS (IF PROVIDED) FOR ADDITIONAL DOOR INFORMATION.
4. ALL DOOR FRAMES TO BE FACTORY FINISHED, U.O.N.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LICENSED ARCHITECT
JAMES ALLEN TAYLOR
C-34838
10-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

U-HAUL TENANT IMPROVEMENT
4658 EVORA ROAD
CONCORD, CALIFORNIA 94520

DOOR SCHEDULE AND DETAILS

| DATE | REMARKS |
|---|---|
| 05/17/2024 | PERMIT SUBMITTAL |

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|---|---|
| PA/PM: | A. GHOORCHIAN |
| DRAWN BY.: | Author |
| JOB NO.: | SNR24-0001-00 |

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# FINISH SCHEDULE

## FLOORING FINISHES

**TILE FLOORING**

| MARK | PRODUCT TYPE | GENERAL LOCATION, U.O.N. | MANUFACTURER | COLLECTION/ STYLE # | COLOR/ COLOR # | SIZE | FINISH | INSTALLATION LAYOUT | GROUT MANUFACTURER | GROUT COLOR / COLOR # | GROUT WIDTH | NOTES | MARK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TF-1 | CERAMIC TILE | RESTROOMS | | | TAN/BEIGE TO RESEMBLE TRAVERTINE | 12"X12" | | STANDARD "TILE" PATTERN | POLYBLEND SANDED GROUT OR SIMILAR | MATCH TILE | 1/4" | RATED FOR LIGHT COMMERCIAL USE AND SUITABLE FOR FLOOR AND WALL APPLICATION | TF-1 |

**CONCRETE FLOORING**

| MARK | PRODUCT TYPE | GENERAL LOCATION, U.O.N. | MANUFACTURER | STAIN/DYE/TINT COLOR # | GRIT LEVEL | SHEEN LEVEL | FINISH | NOTES | MARK |
|---|---|---|---|---|---|---|---|---|---|
| CON-1 | CONCRETE | | COHILLS | AGED BRONZE | | | STAINED | | CON-1 |
| CON-2 | EXISTING CONCRETE FINISH | | | | | | EXISTING FINISH | | CON-2 |

**TRANSITIONS**

| MARK | PRODUCT TYPE | GENERAL LOCATION, U.O.N. | MANUFACTURER | MODEL/ COLOR # | SHEEN LEVEL | FINISH | NOTES | MARK |
|---|---|---|---|---|---|---|---|---|
| TS-1 | TRANSITION STRIP | RESTROOMS | SCHLUTER-RENO-U | ALUMINUM FOR 5/16" FLOOR TILE | | SATIN ANODIZED (AE) FINISH | | TS-1 |

## WALL FINISHES

**WALL / CEILING PAINT**

| MARK | PRODUCT TYPE | GENERAL LOCATION, U.O.N. | MANUFACTURER | SERIES | COLOR/ COLOR # | SHEEN | NOTES | MARK |
|---|---|---|---|---|---|---|---|---|
| P-1 | PAINT | | SHERWIN WILLIAMS | SHER-CRYIL | ULTRA WHITE | HIGH GLOSS FINISH | | P-1 |
| P-2 | PAINT | | SHERWIN WILLIAMS | SHER-CRYIL | ACCESSIBLE BEIGE SW7036 | HIGH GLOSS FINISH | | P-2 |
| P-3 | PAINT | | SHERWIN WILLIAMS | SHER-CRYIL | PENNYWISE SW6349 | HIGH GLOSS FINISH | | P-3 |
| P-4 | PAINT | | SHERWIN WILLIAMS | | EGGSHELL BLACK | HIGH GLOSS FINISH | | P-4 |

**TILE WALL**

| MARK | PRODUCT TYPE | GENERAL LOCATION, U.O.N. | MANUFACTURER | COLLECTION/STYLE# | COLOR/ COLOR # | SIZE | FINISH | INSTALLATION LAYOUT | GROUT MANUFACTURER | GROUT COLOR / COLOR # | GROUT WIDTH | NOTES | MARK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TW-1 | CERAMIC TILE | RESTROOMS | | | TAN/BEIGE TO RESEMBLE TRAVERTINE | 12"X12" | | BRICK PATTERN | POLYBLEND SANDED GROUT OR SIMILAR | MATCH TILE | 1/4" | RATED FOR LIGHT COMMERCIAL USE AND SUITABLE FOR FLOOR AND WALL APPLICATION | TW-1 |

**WALL PANELING (PRE-MANUFACTURERED)**

| MARK | PRODUCT TYPE | GENERAL LOCATION, U.O.N. | MANUFACTURER | SERIES | STYLE/ STYLE # | TRIMS/ REVEALS | PANEL FINISH | PANEL COLOR/ COLOR # | PANEL SIZE | PANEL THICKNESS | INSTALLATION METHOD | NOTES | MARK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FRP-1 | FIBERGLASS REINFORCED PANELS | | KEMPLY | | | EXTRUDED ANODIZED ALUMINUM | | WHITE | | | | | FRP-1 |

**WALL BASE**

| MARK | PRODUCT TYPE | GENERAL LOCATION, U.O.N. | MANUFACTURER | PROFILE/ PROFILE # | COLOR/ COLOR # | SIZE | INSTALLATION METHOD | NOTE | MARK |
|---|---|---|---|---|---|---|---|---|---|
| VC-1 | VINYL COVE BASE | | ARMSTRONG | | BLACK | 4" X 4'-0" | | STANDARD TEXTURE | VC-1 |
| KP-1 | KICK PLATE | | | | | 12" X 18 GA. | | OWNER PROVIDED | KP-1 |

# PLUMBING FIXTURES

| # | FIXTURE TYPE | MANUFACTURER | MODEL NUMBER | FINISH | DESCRIPTION / NOTES |
|---|---|---|---|---|---|
| DF-1 | DRINKING FOUNTAIN | | | | PROVIDE CUP HOLDER |
| L-1 | LAVATORY SINK | AMERICAN STANDARD | COMRADE #0124.024 | VITREOUS CHINA (WHITE) | WALL-HUNG, ACCESSIBLE 20"X18-1/4" REAR OVERFLOW. PROVIDE CENTERSET LAVATORY FAUCET, WITH 0.4 GPM FLOW RESTRICTOR, SINGLE LEVER HANDLE, AND METAL GRID STRAINER. PROVIDE 3/8" STRAIGHT, STAGGERED PEX SUPPLY TUBES - 35" AND 36". PROVIDE OFFSET P-TRAP FOR HANDICAP USE. INSULATE WASTE AND HOT WATER PIPING WITH TRUEBRO MODEL #102 E-Z LAV GUARD 2 BELOW LAVATORY. |
| MS-1 | MOP SINK | FIAT | MSB2424 | MOLDED STONE SINK W/ INTEGRAL STAINLESS STEEL STRAINER EXTENSION | SEE PLUMBING DRAWINGS. |
| S-1 | SERVICE SINK | E.L. MUSTEE & SONS | #18F ULTRATUB 24"X20"X13" | WHITE | SEE PLUMBING DRAWINGS. |
| WC-1 | ACCESSIBLE TANK TYPE WATER CLOSET | AMERICAN STANDARD | CADET PRO RIGHT-HEIGHT ELONGATED TOILET #215AA.104 | VITREOUS CHINA (WHITE) | RIM HEIGHT 16-1/2" ADA COMPLIANT, HIGH EFFICIENCY TOILET (HET), ULTRA LOW CONSUMPTION (4.8 LPF/1.07 GPF). W/ TOILET SEAT MODEL #PFTSCOF2000WH |

# RESTROOM ACCESSORIES

| RA-# | TYPE | MANUFACTURER | MODEL NUMBER | FINISH | DESCRIPTION / NOTES |
|---|---|---|---|---|---|
| RA-1 | GRAB BAR - 42" X 1-1/2" | BOBRICK | B-6806.99 SERIES | STAINLESS STEEL; PEENED NON-SLIP FINISH | W/B-2583 CONCEALED ANCHOR PLATES |
| RA-2 | GRAB BAR - 36" X 1-1/2" | BOBRICK | B-6806.99 SERIES | STAINLESS STEEL; PEENED NON-SLIP FINISH | W/B-2583 CONCEALED ANCHOR PLATES |
| RA-3 | GRAB BAR - 18" X 1-1/2" | BOBRICK | B-6806.99 SERIES | STAINLESS STEEL; PEENED NON-SLIP FINISH | W/B-2583 CONCEALED ANCHOR PLATES |
| RA-4 | SOAP DISPENSER | | | | OWNER SUPPLIED |
| RA-5 | PAPER TOWEL DISPENSER | | | | OWNER SUPPLIED |
| RA-6 | TOILET TISSUE DISPENSER | | | | OWNER SUPPLIED |
| RA-7 | TOILET SEAT COVER DISPENSER | | | | OWNER SUPPLIED |
| RA-8 | 24" X 30" MIRROR | | STAINLESS STEEL FRAME | | TO BE PURCHASED LOCALLY. PROPER BACKING MUST BE APPLIED TO THE WALL TO ALLOW MIRROR TO MOUNT FLUSH WHEN MOUNTING OVER UNEVEN SURFACES SUCH AS WALL TILE AND DRYWALL. |


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LICENSED ARCHITECT
JAMES ALLEN TAYLOR
No. C-34838
REGISTERED
10-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

U-HAUL TENANT IMPROVEMENT
4658 EVORA ROAD
CONCORD, CALIFORNIA 94520

SCHEDULES

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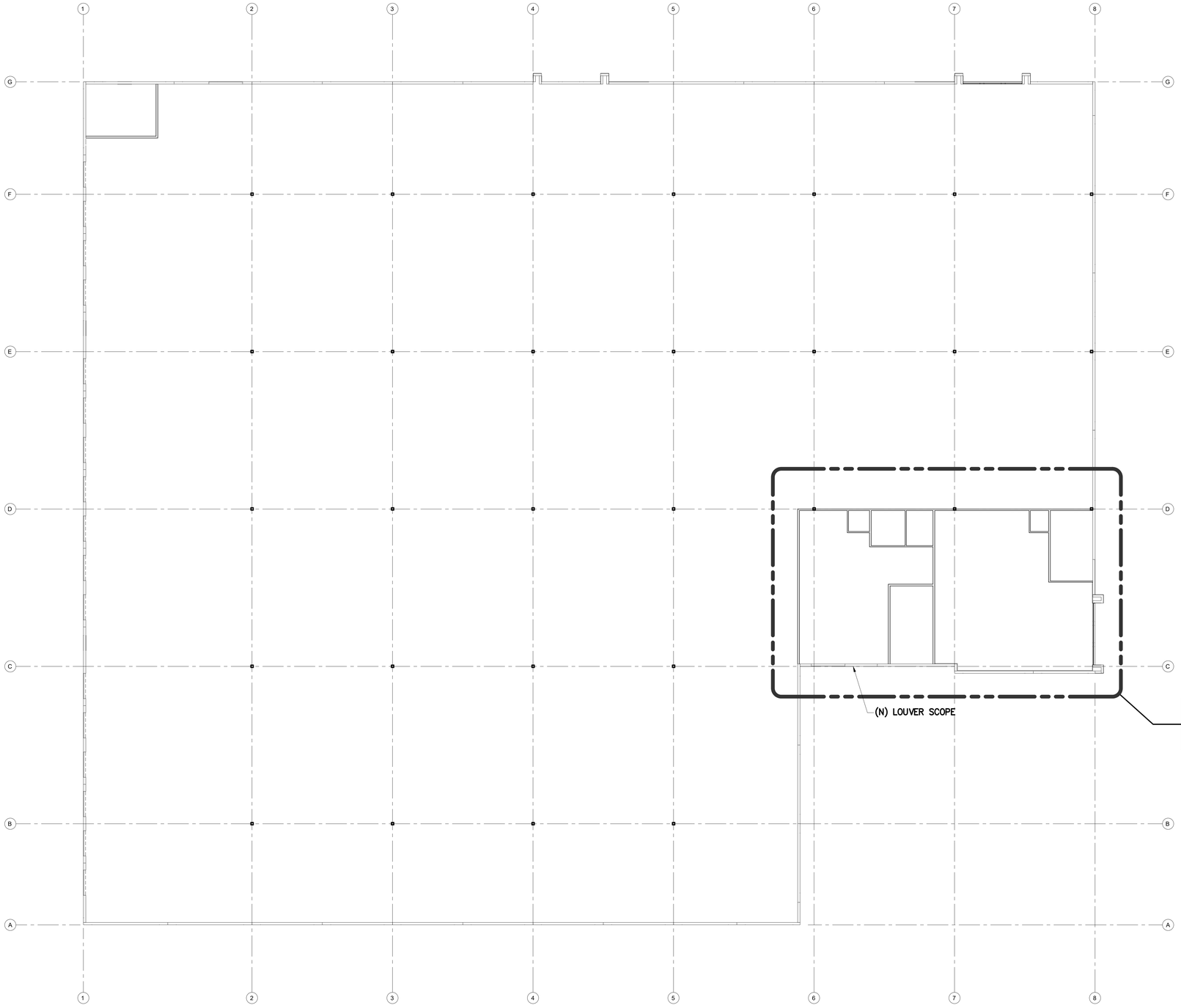


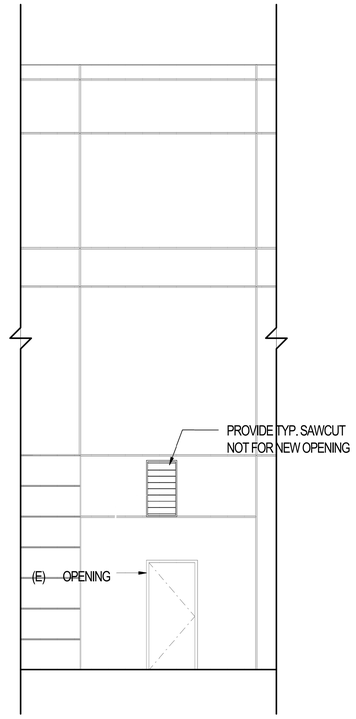


## OVERALL PLAN

SCALE: 1/16" = 1'-0"

N

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REGISTERED PROFESSIONAL ENGINEER
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5/17/2024
STRUCTURAL
STATE OF CALIFORNIA

-HSA-
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Tel (626) 521-9901
HSA PROJECT NO. : 22-238
Rafat W. Salim, S.E.

# CONCORD - WILLOW PASS PROJECT
4658 EVORA ROAD
CONCORD, CALIFORNIA 94520

| REMARKS | DATE |
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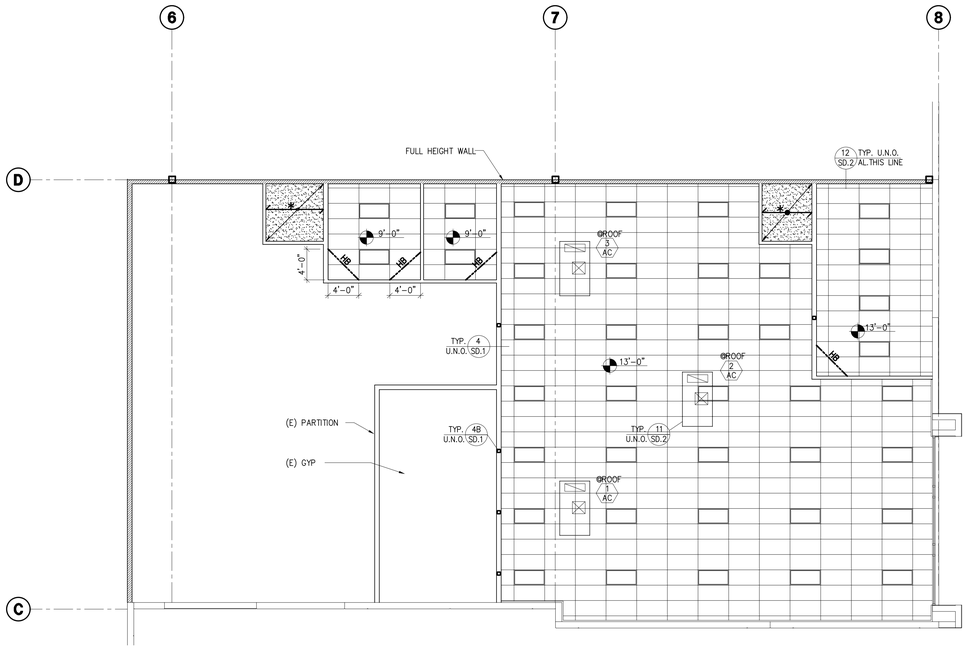


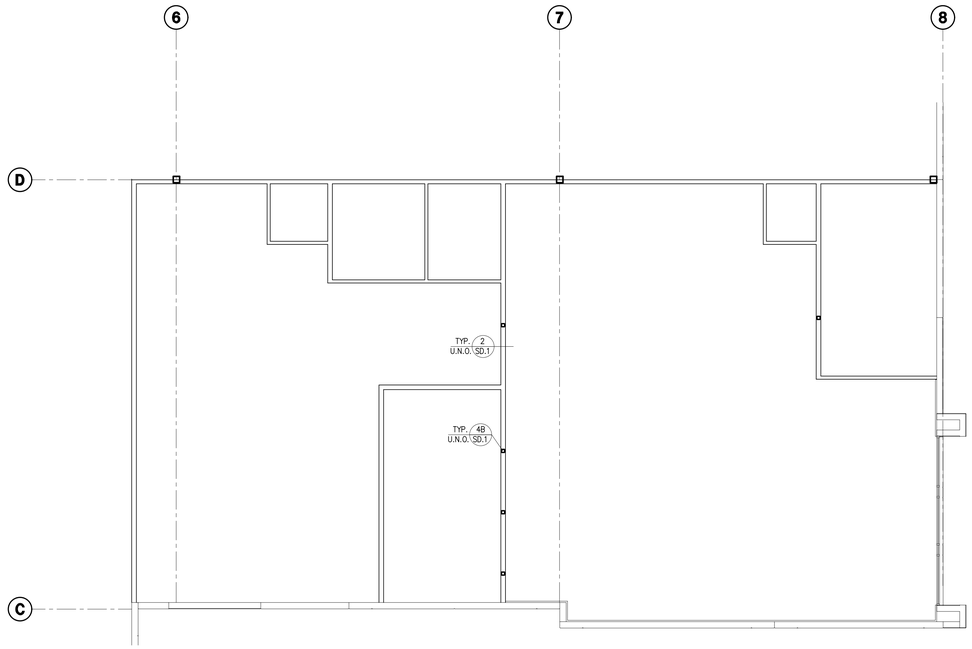


1. SEE SHEET "SD.1" FOR METAL STUD PARTITION WALLS AND FRAMING DETAILS. TYP. U.N.O.
2. SEE ARCHITECTURAL DRAWING FOR CEILING JOIST FRAMING PLAN. & FOR STRUCT'L DET., SEE 7/SD.1
3. FOR HEADER DETAIL, SEE DETAIL 3/SD.1
4. FOR WALL BRACE DETAIL SEE DETAIL 4/SD.1
5. FOR T-BAR CEILING STRUT DETAIL & SCHED. SEE SHEET "SD.3" TYPICAL U.N.O.

LEGEND:

- * = DENOTES CEILING JOIST FOR SIZES SEE DET. 1B/SD.1
- = DENOTES CEILING JOIST AREA
- 1B = DENOTES HORIZONTAL BRACE SEE DET. 4/SD.1

MECH. UNIT SCHEDULE

| UNIT NO. | OPER. WT. (LBS) |
|---|---|
| AC 1 THRU AC 3 | 800 |

**NOTE:**
VERIFY WEIGHT OF MECH. UNITS W/ LATEST MECH. & ARCHT'L DWG'S.

## REFLECTED CEILING PLAN (B)

SCALE: 1/8" = 1'-0"

LEGEND:

- = DENOTES EXISTING CONCRETE WALLS.
- = DENOTES NEW METAL STUD WALL FOR DETAILS, SEE 2/SD.1
- = DENOTES FULL HT. METAL STUD WALL FOR DETAILS, SEE 12/SD.2

NOTE:
FOR TYPICAL METAL STUD DETAILS SEE SHEET "SD.1"

## FLOOR PLAN (A)

SCALE: 1/8" = 1'-0"

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Drawn by: M.M./N.H.

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## GENERAL

1. "CODE" WHERE REFERRED TO HERE IN REFERS TO CALIFORNIA BUILDING CODE (CBC) 2022 EDITION.
2. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CODE, AND ALL APPLICABLE LOCAL AND STATE CODES AND ORDINANCES.
3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE DRAWINGS AND SPECIFICATIONS. ANY CHANGES OR SUBSTITUTIONS MADE MUST BE APPROVED BY THE BUILDING OFFICIAL, AS WELL AS THE ENGINEER OF RECORD, PRIOR TO INSTALLATION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING CONSTRUCTION AND SHALL PROVIDE ADEQUATE SHORING, BRACING AND GUYS DURING CONSTRUCTION. SAFETY AND BRACING REQUIREMENTS SHALL BE IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS BEFORE COMMENCING WORK AND REPORT ANY DISCREPANCIES.
6. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS REQUIRED FOR DUCTS, PIPES AND FOR ALL PIPE SLEEVES, ELECTRICAL CONDUITS AND OTHER ITEMS TO BE EMBEDDED IN CONCRETE OR OTHERWISE INCORPORATED IN STRUCTURAL WORK.
7. IN ALL CASES WHERE A CONFLICT MAY OCCUR, SUCH AS BETWEEN ITEMS COVERED IN SPECIFICATIONS AND NOTES ON THE DRAWINGS OR BETWEEN GENERAL NOTES AND SPECIFIC DETAILS, THE ENGINEER SHALL BE NOTIFIED AND HE WILL INTERPRET THE INTENT OF THE CONTRACT DOCUMENTS.
8. WHERE CONSTRUCTION MATERIALS ARE TEMPORARILY STORED ON ROOF OR FLOOR FRAMING, THEY SHALL BE DISTRIBUTED SO THAT THE LOAD DOES NOT EXCEED THE DESIGN LIVE LOAD.
9. THE GEOTECHNICAL REPORT IS CONSIDERED A PART OF THESE PLANS. A COPY SHALL BE KEPT AT THE JOB SITE AT ALL TIMES. ANY SUGGESTED "SHOULD" ACTION GIVEN IN THE GEOTECHNICAL REPORT SHALL BE TAKEN AS A DIRECTIVE "SHALL".
10. CONTRACTOR WILL SET UP A PRE-CONSTRUCTION MEETINGS WITH ARCHITECT, STRUCTURAL ENGINEER AND GEOTECHNICAL ENGINEER PRIOR TO START OF CONSTRUCTION.

## DESIGN CRITERIA

**RISK CATEGORY**

BUILDING IS DESIGNED PER RISK CATEGORY II REQUIREMENTS AND HAS TO COMPLY WITH BELOW OCCUPANCY AND STORAGE LIMITATIONS PER CBC 2022.

1. PUBLIC SPACES (SUCH AS BREAK ROOMS, CONFERENCE ROOMS, TRAINING ROOMS) OCCUPANCY SHOULD BE LIMITED TO BE LESS THAN 300. IF THE OCCUPANCY EXCEEDS 300, THEN CUMULATIVE OCCUPANCY OF ALL THE PUBLIC SPACES SHOULD NOT EXCEED 2500.
2. MAXIMUM CUMULATIVE OCCUPANCY OF BUILDING SHOULD NOT EXCEED 5000.
3. HAZMAT STORAGE BUILDINGS SHOULD NOT CONSIST OF MORE THAN 1 LB. OF SOLID OR LIQUID EXPLOSIVE MATERIALS NOR MORE THAN 500 LBS OF SOLID OR LIQUID TOXIC MATERIALS.

**SEISMIC**

OCCUPANCY CATEGORY = II

SEISMIC DESIGN CATEGORY = D

REDUNDANCY FACTOR, $\rho$ = 1.0

SEISMIC IMPORTANCE FACTOR, $I_E$ = 1.0

$S_S$ = 1.500g $S_{DS}$ = 1.200g

$S_1$ = 0.600g $S_{D1}$ = NULL

**WIND**

ULTIMATE WIND SPEED ($V_{ULT}$) = 93 MPH

NOMINAL WIND SPEED ($V_{ASD}$) = 72 MPH

WIND EXPOSURE = C

IMPORTANCE FACTOR ($I_W$) = 1.0

## FOUNDATION

THE FOUNDATION DESIGN IS BASED ON THE CODE MINIMUM.

1. ALL THE RECOMMENDATIONS CONTAINED IN THE ABOVE MENTIONED REPORT ARE PART OF THESE SPECIFICATIONS.
2. SITE AND BASE PREPARATION SHALL BE PER THE GEOTECHNICAL REPORT RECOMMENDATIONS.
3. ALL FOOTINGS EXCAVATIONS SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER AND BUILDING DEPARTMENT PRIOR TO POURING CONCRETE.
4. THE SOIL BEARING VALUE USED FOR THE DESIGN OF FOOTINGS UPON COMPACTED EARTH AND **18"** BELOW LOWEST FINISHED GRADE IS:

| ALLOWABLE SAFE BEARING CAPACITY (PSF) | | |
|---|---|---|
| **WIDTH (FT)** | **CONTINUOUS FOUNDATION** | **ISOLATED FOUNDATION** |
| 2.0 | 1500 | 2575 |

5. SEE GEOTECHNICAL REPORT FOR COMPACTED FILL REQUIRED UNDER ALL THE FOOTINGS.
6. PAD PREPARATION SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING ANY CONCRETE. THE PAD SHALL BE KEPT MOIST PRIOR TO THE PLACING OF CONCRETE. PRE-SATURATION OF THE SLAB SUBGRADE WILL BE AS PER GEOTECHNICAL REPORT.
7. ALL MATERIAL FROM FOOTING EXCAVATIONS TO BE REMOVED AND SHOULD NOT BE USED UNDER THE SLAB ON GROUND.
8. OVER EXCAVATION AND RECOMPACTION SHOULD BE COMPLETED IN ACCORDANCE WITH GEOTECHNICAL REPORT RECOMMENDATIONS
9. SLAB ON GROUND ON PAVEMENT AREAS SHOULD BE OVER EXCAVATED AND RECOMPACTED WHERE REQUIRED AS PER THE GEOTECHNICAL REPORT.
10. SOIL COMPACTION REPORT SHALL BE SUBMITTED TO THE CITY BUILDING INSPECTOR PRIOR TO FOOTING INSPECTION AND PRIOR TO PLACEMENT OF FOOTING CONCRETE.
11. PROVIDE SURVEY STAKES PRIOR TO FOUNDATION INSPECTION TO VERIFY LOT LINES.
12. SEE GEOTECHNICAL REPORT FOR REMOVAL AND RECOMPACTION REQUIREMENTS.
13. GEOTECHNICAL ENGINEER TO VERIFY SULFATE TEST RESULTS WITH ADDITIONAL TESTS DURING FINAL GRADING AND ADVISE SEOR IF CHANGED FROM THE GEOTECHNICAL REPORT.
14. GEOTECHNICAL ENGINEER SHALL INSPECT AND APPROVE FOUNDATION PRIOR TO PLACEMENT OF CONCRETE FOR THE FOUNDATION. EVIDENCE OF SUCH INSPECTION SHALL BE PROVIDED TO THE BUILDING INSPECTOR AT FOUNDATION INSPECTION.
15. PROVIDE DRAINAGE BEHIND ALL RETAINING/SITE WALLS AS REQUIRED BY THE GEOTECHNICAL REPORT.
16. UNDERPINNING TO BE DESIGNED AS PER CBC CHAPTER 18 AND 33.
17. CONSTRUCTION TOLERANCES SHALL BE FOLLOWED PER ACI 301.

## PRECAST PANELS

1. ALL PANELS ARE DRAWN FROM THE INSIDE OF THE BUILDING U.N.O.
   ALL PANEL THICKNESSES ARE SHOWN ON THE PANEL ELEVATION DRAWINGS.
2. PANEL REINFORCEMENT IS DETAILED ON SHEET SD-3 FOR TYPICAL PANEL TYPES. ADDITIONAL PANEL REINFORCEMENT MAY BE DETAILED ON THE PANEL ELEVATIONS.
3. ADD 2-#5 BARS MINIMUM AROUND ALL OPENINGS TYPICAL U.N.O., EXTEND 2'-0" BEYOND OPENING U.N.O.
   ALSO ADD 1-#5 E.F. DIAGONAL BAR AT ALL CORNERS OF ALL OPENINGS. SEE DETAIL "3/SD-3".
4. DURING ERECTION OF PANELS SUPPORTED BY CONTINUOUS FOOTINGS, PROVIDE GROUT UNDER THE PANELS FOR THE FULL LENGTH OF THE FOOTING BEFORE PANELS HAVE BEEN ERECTED. AS AN ALTERNATE FOR CONTINUOUS GROUT, USE 18" SQ. GROUT PADS LOCATED AT 6'-0" O.C. MAX., 3'-0" FROM PANEL JOINT, AND AT EACH SIDE OF PANEL OPENING, THEN GROUT FULL LENGTH OF THE PANEL AFTER THE PANELS ARE ERECTED.
   NO SHIMS WILL BE ACCEPTABLE AS AN ALTERNATE.
   A. SCHEDULE ONE SITE VISIT BY THE STRUCTURAL ENGINEER, THE DAY PRIOR TO THE ERECTION ON THE FIRST PANEL.
   B. FORWARD A COPY OF THE STRUCTURAL ENGINEERS JOB SITE REPORT, STATING ACCEPTANCE OF THE GROUT PAD INSTALLATION, TO THE BUILDING OFFICIAL
5. SEE ROOF PLAN AND VERIFY WITH ROOF COMPANY SHOP DRAWINGS PRIOR TO INSTALLATION OF ROOF CONNECTION BOLTS AND SCUPPERS.
6. SEE ARCHITECTURAL DRAWINGS FOR ALL DESIGN REVEALS AND FORMLINERS. VERIFY ALL REQUIRED OPENINGS WITH RELATED ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
7. REINFORCING STEEL TO BE GRADE 60 DEFORMED BARS CONFORMING TO ASTM A615. ALL REBAR TO BE WELDED SHALL CONFORM TO ASTM A706.
8. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND FIELD CONDITIONS PRIOR TO POURING CONCRETE FOR FOOTING AND PANELS.
9. PANEL JOINTS SHALL BE SEALED WITH BACK-UP ROD AND SEALANT AT EXTERIOR AND INTERIOR FACES EXCEPT PANELS INSIDE OF BUILDING.
10. USE ICC APPROVED BOND BREAKER.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND PLACEMENT OF ALL LIFTING POINTS, ADDITIONAL SPECIAL REINFORCEMENT AND STRONG BACKS REQUIRED TO ADEQUATELY TILT THE PRECAST CONCRETE PANELS. THE LIFT DESIGN SHALL BE BASED ON THE STRENGTH OF THE CONCRETE SPECIFIED BY THE STRUCTURAL DRAWINGS AS EXPECTED AT TIME OF LIFT. TEST RESULTS FOR CONCRETE STRENGTH PRIOR TO LIFTING MUST BE APPROVED. A MINIMUM OF 7 DAYS AND 70% OF CONCRETE STRENGTH @ 28 DAYS MUST BE MET BEFORE LIFTING PANELS.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY BRACING REQUIRED FOR PRECAST PANELS PRIOR TO CONNECTION OF ALL SUPPORTING ELEMENTS SUCH AS THE ROOF STRUCTURE AND FLOOR SLAB.
13. PRECAST CONCRETE PANELS ARE DESIGNED IN ACCORDANCE WITH THE PROVISIONS FOR THE MANUFACTURE UNDER PLANT CONTROL CONDITIONS PER ACI 318 SECTION 20.6.1.3.3. ALL JOB SITE PRECAST CONDITIONS MUST BE EQUAL TO THAT NORMALLY EXPECTED IN A PLANT.
14. CONTINUOUS INSPECTION REQUIRED FOR ALL PRECAST PANELS.
15. PROVIDE 1 1/2" CONC. COVER TO ALL VERT. BARS IN DOUBLE CURTAIN REINFORCED PANELS, TYP. U.N.O.
16. CONSTRUCTION TOLERANCES SHALL BE FOLLOWED PER ACI 301.

## CONCRETE

1. CEMENT: TYPE I/II CONFORMING TO ASTM C150 OR TYPE IL CONFORMING TO ASTM C595.
2. ALL CONCRETE AGGREGATES UNLESS OTHERWISE NOTED ON PLANS, SHALL BE REGULAR WEIGHT HARD ROCK TYPE (150 LB/ CU. FT.) AND SHALL CONFORM TO ASTM C33. DO NOT CHANGE SOURCE OF AGGREGATE DURING COURSE OF WORK WITHOUT PRIOR WRITTEN ACCEPTANCE OF THE ARCHITECT. FOR CONCRETE SHRINKAGE LIMITS REFER TO CONCRETE MIX DESIGN TABLE.
3. STRENGTHS: ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE $f'_c$ = * CONCRETE MIX DESIGN TABLE.
4. VIBRATION: VIBRATION OF CONCRETE SHALL BE IN ACCORDANCE WITH GENERAL PROVISIONS OUTLINED IN PORTLAND CEMENT ASSOCIATION SPECIFICATION ST26.
5. CURING: CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF FIVE DAYS AFTER ITS PLACEMENT. FOR CONCRETE OTHER THAN SLAB ON GROUND, APPROVED CURING COMPOUNDS MAY BE IN LIEU OF MOIST CURING IF APPROVED BY THE OWNER AND ARCHITECT.
6. TESTS OF CONCRETE DURING CONSTRUCTION SHALL BE REQUIRED AS PER CBC SECTION 1903 ACI 318-19 SECTION 26.12 AND AS OUTLINED IN SPECIFICATION
   REPORTS SHALL BE FORWARDED TO THE STRUCTURAL ENGINEER.
   A. RESPONSIBILITY FOR TESTING
      1. OWNER SHALL ENGAGE ONE OR MORE TESTING FIRMS AND SHALL PAY FOR THE FOLLOWING TESTS:
         a. SLUMP TESTS DURING CONSTRUCTION.
         b. CONCRETE-STRENGTH TESTS DURING CONSTRUCTION.
         c. AIR-CONTENT TESTS DURING CONSTRUCTION IN COLD WEATHER CONCRETE ONLY.
         d. SURFACE-TOLERANCE TESTS DURING CONSTRUCTION PER ARCHITECTURAL SPECIFICATIONS.
         e. AT OWNER'S OPTION, SHRINKAGE TESTS DURING CONSTRUCTION.
         f. AT OWNER'S OPTION, UNIT WEIGHT TESTS.
         g. AT OWNER'S OPTION, WEAR-RESISTANCE TESTS.
      2. THE CONTRACTOR SHALL PAY FOR THE FOLLOWING TESTS:
         a. ALL TESTS NEEDED TO ESTABLISH THE CONCRETE MIX DESIGN, INCLUDING TEST FOR FLEXURAL STRENGTH, SHRINKAGE, AND RESIDUAL STRENGTH.
         b. ALL ADDITIONAL TESTS NEEDED TO ESTABLISH THE WORK'S ACCEPTABILITY AFTER A FAILURE TO MEET ANY SPECIFIED REQUIREMENT.
   B. SLUMP TESTS
      1. TEST CONCRETE FOR SLUMP ACCORDING TO ASTM C143.
      2. MAKE AT LEAST ONE SLUMP TEST FOR EACH 150 CUBIC YARDS OF CONCRETE OR AT LEAST ONE PER POUR, AND WHENEVER A BATCH APPEARS TOO WET OR TOO DRY.
      3. IF CONCRETE IS PUMPED, TEST SLUMP AT THE DOWNSTREAM END OF THE PUMP LINE.
   C. STRENGTH TESTS
      1. COMPRESSIVE STRENGTH
         a. TEST CONCRETE'S COMPRESSIVE STRENGTH ACCORDING TO ASTM C39.
         b. USE 6"X12" CYLINDER MOLDS.
         c. FOR FOUNDATION AND PANELS: MAKE FIVE TEST CYLINDERS FOR EACH 150 CUBIC YARDS OF CONCRETE, TESTING ONE AT 7 DAYS, ONE AT 28 DAYS, TWO AT 56 AND HOLDING ONE.
         d. FOR SLAB ON GROUND: MAKE FOUR TEST CYLINDERS FOR EACH 150 CUBIC YARDS OF CONCRETE, TESTING ONE AT 7 DAYS, TWO AT 28 DAYS, AND HOLDING ONE.
      2. FLEXURAL STRENGTH FOR SLAB ON GROUND AND TRUCK COURT
         a. TEST CONCRETE FLEXURAL STRENGTH ACCORDING TO ASTM C78.
         b. MAKE FOUR 6"x6"x20" BEAMS FOR EACH POUR DAY, TESTING TWO AT 28 DAYS AND TWO AT 56 DAYS.
      3. RESIDUAL STRENGTH FOR STEEL FIBER REINFORCED SLAB ON GROUND ONLY
         a. TEST CONCRETE'S RESIDUAL STRENGTH ACCORDING TO ASTM C1609.
         b. MAKE THREE 6"x6"x20" BEAMS FOR TESTING RESIDUAL STRENGTH AT EVERY POUR. REPORT BOTH THE MODULUS OF RUPTURE (PEAK LOAD) AND THE $R_{e,3}$ VALUE FOR EACH BEAM AT 28 DAYS.
   D. AIR-CONTENT TESTS FOR COLD WEATHER CONCRETE ONLY:
      1. TEST CONCRETE FOR AIR CONTENT ACCORDING TO ASTM C231.
      2. A MINIMUM OF ONE AIR CONTENT TEST FOR EACH 150 CUBIC YARDS OF CONCRETE.
   E. FF AND FL TESTS PER ARCHITECTURAL SPECIFICATIONS.
   F. AT OWNER'S OPTION SHRINKAGE TESTS:
      1. MEASURE DRYING SHRINKAGE PER AIR STORAGE METHOD ACCORDING TO ASTM C157.
      2. THE CURING PERIOD (NOT THE AIR-STORAGE PERIOD) MAY BE REDUCED TO 7 DAYS.
      3. REPORT SHRINKAGE AFTER 7, 14, 21, AND 28 DAYS OF AIR STORAGE.
   G. AT OWNER'S OPTION, UNIT-WEIGHT TESTS:
      1. TEST CONCRETE UNIT WEIGHT ACCORDING TO ASTM C138.
      2. MAKE AT LEAST ONE UNIT WEIGHT TEST FOR EACH 150 CUBIC YARDS OF CONCRETE OR AT LEAST ONE PER POUR.
   H. AT OWNER'S OPTION, WEAR-RESISTANCE TESTS:
      1. TEST WEAR RESISTANCE WITH A CHAPLIN ABRASION TESTER, USING THE STANDARD 15-MINUTE TEST.
      2. IT IS EXPECTED THAT WEAR-RESISTANCE TESTS WILL BE MADE ONLY IF DOUBTS ARE RAISED ABOUT THAT SLAB'S DURABILITY.
      3. TEST SHALL BE PERFORMED AFTER MINIMUM OF 28 DAYS OF POUR..
7. REINFORCING STEEL, ANCHOR BOLTS, DOWELS, INSERTS, ETC. SHALL BE SECURELY TIED IN PLACE PRIOR TO POURING CONCRETE.
8. LOCATION OF CONSTRUCTION AND POUR JOINTS SHALL BE APPROVED BY THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO POURING CONCRETE.
9. CONCRETE FORM WORK TOLERANCES SHALL BE IN ACCORDANCE WITH CBC AND ACI STANDARDS.
10. GROUT UNDER PRECAST CONCRETE PANELS SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH TO MATCH PANEL OF HIGHEST STRENGTH.
11. **HOT AND COLD WEATHER CONCRETING:**
    A. HOT WEATHER CONCRETING: DO NOT USE CONCRETE WITH TEMPERATURE OVER 90° WHEN THE TEMPERATURE RISES ABOVE 80° F AND ESPECIALLY WHEN THE RELATIVE HUMIDITY FALLS BELOW 25%,THE CONTRACTOR SHOULD FOLLOW HOT WEATHER CONCRETING IN ACCORDANCE WITH ACI 305R (LATEST EDITION) DURING HOT WEATHER. BE PREPARED TO USE FOG SPRAY OR OTHER PRECAUTIONS ACCEPTABLE TO ARCHITECT WHEN RATE OF EVAPORATION EQUALS OR EXCEEDS 0.2 POUNDS PER SQUARE FOOT PER HOUR. REFER TO SURFACE EVAPORATION CHART ON THIS SHEET TO ESTIMATE RATE OF SURFACE UNDER EVAPORATION.
    B. COLD WEATHER CONCRETE: ADEQUATE EQUIPMENT SHALL BE PROVIDED FOR HEATING CONCRETE MATERIALS AND PROTECTING CONCRETE DURING FREEZING OR NEAR FREEZING WEATHER. ALL CONCRETE MATERIALS AND ALL REINFORCEMENT FORMS, FILLERS AND GROUND WITH WHICH THE CONCRETE IS TO COME IN CONTACT SHALL BE FREE FROM FROST. FROZEN MATERIAL OR MATERIALS CONTAINING ICE SHALL NOT BE USED. COLD WEATHER CONDITIONS WILL DONE IN ACCORDANCE WITH ACI 306R (LATEST EDITION). AIR CONTENT NOT TO EXCEED 3.0%
12. CONSTRUCTION TOLERANCES SHALL BE FOLLOWED PER ACI 301.
13. TESTING ON DEEP FOUNDATIONS SHELL BE PERFORMED WITH GEOR WHEREVER THERE IS A REASONABLE DOUBT ON STRUCTURAL INTEGRITY.

## CONCRETE MIX DESIGN

| USE | DESIGN | MIX DESIGN (fc MIN. AT 28 DAYS) | MIX DESIGN (fc MIN. AT 56 DAYS) | SLUMP | AGGREGATE LARGEST SIEVE DESIGNATION U.N.O. | INSPECTION | MINIMUM FLEXURAL STRENGTH (ASTM C78) | ULTIMATE SHRINKAGE (ASTM C175) 7 DAYS | 28 DAYS |
|---|---|---|---|---|---|---|---|---|---|
| 1. MISCELLANEOUS | 2500 PSI | 3000 PSI | – | 4" ± 1" MAX. | 1" | NO | | – | – |

A. ALTERNATE MIX DESIGN
   1. UPON OWNER'S DISCRETION AND/OR RESOURCE AVAILABILITY, ONE OR MORE OF THE SUBSEQUENT OPTIONS MAY BE INCORPORATED IN THE MIX DESIGN ABOVE – TYPE IL, FLY ASH, SLAG, NATURAL POZZOLANS, HIGH QUALITY LOW SHRINKAGE AGGREGATE (EG: ORCA) CARBON CURE. EACH SELECTED OPTION MAY BE UTILIZED IN ANY COMBINATION FOR ANY COMPONENT(S).
   2. FLY ASH SHALL CONFORM TO ASTM C618 AND SHALL NOT EXCEED 20% OF THE TOTAL CEMENTITIOUS CONTENT.
   3. SLAG SHALL CONFORM TO ASTM C989 AND SHALL NOT EXCEED 30% OF THE TOTAL CEMENTITIOUS CONTENT.
   4. NATURAL POZZOLAN SHALL CONFORM TO ASTM C618 AND SHALL NOT EXCEED 20% OF THE TOTAL CEMENTITIOUS CONTENT.
   5. HIGH QUALITY LOW SHRINKAGE AGGREGATE (E.G. ORCA) AGGREGATE SHALL BE 1" TOP SIZE.
   6. CARBON CURE OR OTHER $CO_2$ SEQUESTRATION METHOD MAY BE USED WITH PERMISSION OF THE ARCHITECT.

B. MIX DESIGN SHOWN ABOVE ARE FOR NEGLIGIBLE SULFATE EXPOSURE (S0). THE GEOTECHNICAL ENGINEER SHALL PROVIDE SULFATE EXPOSURE OF THE SITE.

C. REQUIREMENTS FOR CONCRETE BY SULFATE EXPOSURE PER ACI 318, TABLE 19.3.2.1

| SULFATE EXPOSURE | CEMENT CONFORMING TO ASTM C150[i] | CEMENT CONFORMING TO ASTM C595[ii] | f'c MIN. | MAX. WATER CEMENT RATIO (W/C) |
|---|---|---|---|---|
| S0 (NEGLIGIBLE) | NO TYPE RESTRICTION | NO TYPE RESTRICTION | 2500 PSI | N/A |
| S1 (MODERATE) | II[ii] | TYPES IP, IS OR IT WITH (MS) DESIGNATION | 4000 PSI | 0.5 |
| S2 (SEVERE) | V[ii] | TYPES IP, IS OR IT WITH (HS) DESIGNATION | 4500 PSI | 0.45 |
| S3 (VERY SEVERE) | V PLUS POZZOLAN OR SLAG CEMENT | TYPES IP, IS OR IT WITH (HS) DESIGNATION PLUS POZZOLAN OR SLAG CEMENT | 4500 PSI | 0.45 |

i. ALTERNATIVE COMBINATIONS OF CEMENTITIOUS MATERIALS TO THOSE LISTED ARE PERMITTED FOR ALL SULFATE EXPOSURE CLASSES WHEN TESTED FOR SULFATE RESISTANCE AND MEETING THE CRITERIA IN ACI 318-19: 26.4.2.2(C)

ii. OTHER AVAILABLE TYPES OF CEMENT SUCH AS TYPE I OR TYPE III ARE PERMITTED IN EXPOSURE CLASS S1 OR S2 IF THE $C_3A$ CONTENTS ARE LESS THAN 8 PERCENT FOR EXPOSURE CLASS S1 OR LESS THAN 5 PERCENT FOR EXPOSURE CLASS S2.

## STRUCTURAL OBSERVATION NOTES PER CBC SECTION 1704.6

1. THE FOLLOWING ITEMS REQUIRE STRUCTURAL OBSERVATION BY A LICENSED ENGINEER OR ARCHITECT.
2. THE OWNER SHALL EMPLOY THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN OR ANOTHER ENGINEER OR ARCHITECT DESIGNATED BY THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN TO PERFORM STRUCTURAL OBSERVATION AS DEFINED IN CBC SECTION 220.
3. OBSERVED DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER'S REPRESENTATIVE, SPECIAL INSPECTOR, CONTRACTOR AND THE BUILDING OFFICIAL.
4. THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFYING ANY REPORTED DEFICIENCIES THAT, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.
5. IT IS NOT REQUIRED TO OBSERVE THE ELEMENTS NOTED IN "1A" THRU "1G" ABOVE FOR EACH INDIVIDUAL BUILDING.

## STRUCTURAL STEEL

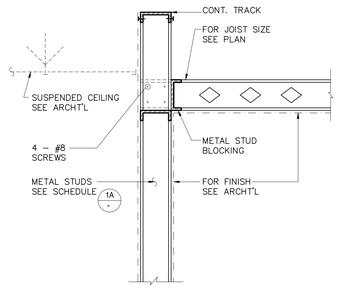
1. STRUCTURAL STEEL AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 U.N.O.
   ALL STEEL BENT PLATES, CHANNELS AND ANGLES SHALL BE ASTM A36 WITH MAXIMUM Fy=36 KSI AND MAXIMUM Fu=80 KSI.
   STEEL W- SHAPES SHALL CONFORM TO ASTM A992 U.N.O.
   STEEL RECTANGULAR AND SQUARE H.S.S. SHALL CONFORM TO ASTM A500, GRADE C, Fy=50 KSI U.N.O.
   STEEL ROUND H.S.S. SHALL CONFORM TO ASTM A500, GRADE C, Fy=46 KSI U.N.O.
   STEEL PIPE SHALL CONFORM TO ASTM A53, GRADE B, Fy=35 KSI U.N.O.
2. ALL WELDING IS TO COMPLY WITH A.W.S. SPECIFICATIONS AND IS TO BE DONE BY WELDERS APPROVED BY THE DEPARTMENT OF BUILDING AND SAFETY. ALL WELDING WILL BE DONE BY ELECTRONIC ARC PROCESS USING E70XX ELECTRODES AND SHALL BE PERFORMED WITH APPROVED ELECTRODES AS REQUIRED BY THE AISC SPECIFICATION. WELDS ARE DESIGNED AT FULL STRESS AND MUST BE DONE IN THE SHOP OF A LICENSED FABRICATOR EXCEPT WHERE OTHERWISE NOTED ON PLANS. SPECIAL INSPECTION IS REQUIRED FOR FIELD WELDS.
3. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED BY A LICENSED FABRICATOR, APPROVED BY THE BUILDING DEPARTMENT AND IN CONFORMANCE WITH THE AISC SPECIFICATION FOR FABRICATION.
4. SHOP DRAWINGS FOR ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER. APPROVAL MUST BE OBTAINED PRIOR TO FABRICATION.
5. ALL GROUT UNDER STEEL BEARING PLATES SHALL BE SOLID DRY PACK OR NON-SHRINK GROUT PLACED AS DIRECTED BY THE MANUFACTURER. MINIMUM COMPRESSIVE STRENGTH SHALL BE 4000 PSI AT 28 DAYS.
6. AT RECESSED EMBEDDED PLATES, TACK WELD WIRE FABRIC TO ALL EMBEDS AND FILL WITH NON-SHRINK GROUT.
7. ALL BOLTS SHALL CONFORM TO ASTM A307 UNLESS NOTED OTHERWISE.
8. HIGH STRENGTH BOLTS WHERE SPECIFIED SHALL CONFORM TO ASTM A325 U.N.O. AND INSTALLATION SHALL BE INSPECTED BY A REGISTERED DEPUTY INSPECTOR APPROVED BY THE BUILDING DEPARTMENT
9. NUTS FOR STRUCTURAL STEEL BOLTS SHALL CONFORM TO ASTM A563.
10. WASHERS FOR STRUCTURAL STEEL BOLTS SHALL CONFORM TO ASTM F436.
    THREADED RODS SHALL CONFORM TO ASTM A36.
12. ANCHOR BOLTS FOR BUCKLING-RESTRAINED BRACE FRAME SHALL CONFORM TO ASTM F1554 GR.105
13. LIGHT GAUGE STRUCTURAL STEEL MEMBERS SHALL CONFORM TO ASTM A1011.
14. ALL EXPOSED STEEL SHALL BE PAINTED WITH SHOP PRIMER.
15. SEE ROOF FRAMING PLAN FOR BAR JOIST SPECIFICATIONS.
16. THE USE OF ROLLED STEEL SECTION AND/OR BOLTS MANUFACTURED OUTSIDE THE UNITED STATES WILL REQUIRE VERIFICATION THAT THE PRODUCTS COMPLY WITH APPLICABLE ASTM STANDARDS. MILL CERTIFICATES WILL BE REQUIRED FOR ALL STEEL. STEEL GRADES OTHER THAN ASTM A36 WILL REQUIRE TESTING BY AN APPROVED LABORATORY. ALL FOREIGN BOLTS MUST BE APPROVED BY COUNTY BUILDING AND SAFETY PRIOR TO THEIR USE.
17. **FOR STEEL BUCKLING-RESTRAINED BRACED FRAME OR SPECIAL MOMENT FRAMES, SEE SHEET "SD-5"**

## STATEMENT OF SPECIAL INSPECTION AND STRUCTURAL TEST

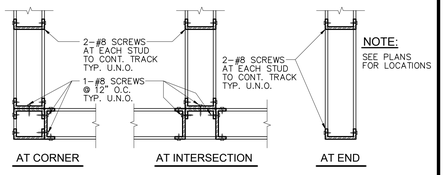
1. THIS SECTION APPLIES TO THE STRUCTURAL PORTIONS OF THE PROJECT REQUIRING SPECIAL INSPECTION. THE SPECIAL INSPECTOR'S DUTIES ARE AS DESCRIBED IN SEC. 1704.2 AND 1704.3 OF CBC. COPIES OF TEST RESULTS AND FINAL REPORTS SHALL BE FURNISHED TO THIS ENGINEER IN ADDITION TO OTHER NORMAL DISTRIBUTIONS WITHIN ONE WEEK OF TEST OR INSPECTION.
2. ALL TESTS AND INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT TESTING AND INSPECTION AGENCY EMPLOYED BY THE OWNER OR ARCHITECT AND NOT THE CONTRACTOR PER CBC SECTION 1703. JOB SITE VISITS BY THE STRUCTURAL ENGINEER DO NOT CONSTITUTE A SPECIAL INSPECTION. THE FIRM PROVIDING SPECIAL INSPECTION SHALL BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
   (NOTE: FOUNDATION INSPECTIONS LISTED BELOW ARE PROVIDED BY AN INSPECTOR DESIGNATED BY OTHERS)
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TEST AND INSPECTION FIRM WITH A SCHEDULE TO FACILITATE THE PROPER COORDINATION OF WORK.
4. SPECIAL INSPECTION FOR SEISMIC RESISTANCE FOR DESIGN CATEGORY C,D,E & F SHALL BE DONE IN ACCORDANCE TO SECTION 1705.12
5. PORTIONS OF WORK REQUIRING SPECIAL INSPECTION:

| | YES | NO | N/A |
|---|---|---|---|
| I. FOUNDATION: | | | |
| A. COMPACTED FILL, GRADING AND EXCAVATIONS | ■ | □ | □ |
| B. CONTINUOUS INSPECTION OF PILE DRIVING AND/OR DRILLING OF CAISSONS | □ | □ | ■ |
| C. SEE CBC TABLE 1705.3 BELOW FOR ANY ADDITIONAL REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION | | | |
| II. CONCRETE: | | | |
| A. CONTINUOUS INSPECTION AND TEST CYLINDERS FOR STRUCTURAL CONCRETE EXCEPT FOUNDATION CONCRETE OF 2500 PSI OR LESS | ■ | □ | □ |
| B. CONTINUOUS INSPECTION FOR SLAB-ON-GRADE CONCRETE | ■ | □ | □ |
| C. TEST CYLINDERS FOR SLAB-ON-GRADE CONCRETE | ■ | □ | □ |
| D. SEE CBC TABLE 1705.3 BELOW FOR ANY ADDITIONAL REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION | | | |
| E. SHRINKAGE TESTS PER ASTM C157 SLAB ON GROUND, SLAB ON METAL DECK, APRON SLAB, TILT-UP PANELS & SITE PANELS | ■ | □ | □ |
| III. REINFORCING STEEL: | | | |
| A. PLACING OF REINFORCING | ■ | □ | □ |
| B. SAMPLING AND TESTING OF STEEL (MILL REPORTS AND IDENTIFICATION OF STEEL) | ■ | □ | □ |
| C. SEE CBC TABLE 1705.3 BELOW FOR ANY ADDITIONAL REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION | | | |
| IV. MASONRY: | | | |
| A. CONTINUOUS INSPECTION | ■ | □ | □ |
| B. MASONRY PRISM TESTING PER ASTM C 1314 AND 2105.3 | □ | ■ | □ |
| C. SEE TABLE 3.1.2 OF TMS 602-13/ACI 530.1-13/ASCE 5-13 BELOW FOR ANY ADDITIONAL REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION | | | |
| V. STRUCTURAL STEEL: | | | |
| A. MILL REPORTS AND IDENTIFICATION OF STEEL (AFFIDAVIT OF COMPLIANCE) | ■ | □ | □ |
| B. SAMPLING AND TESTING OF SPECIMENS | ■ | □ | □ |
| C. SEE TABLES N5.4-1 THRU N5.4-3 AND TABLES N5.6-1 THRU N5.6-3 OF AISC 360-16 FOR ALL STRUCTURAL STEEL. | | | |
| D. SEE TABLES J6-1 THRU J6-3, TABLES J7-1 THRU J7-3 AND TABLE J8-1 OF AISC 341-16 FOR ALL SEISMIC RESISTING STRUCTURAL STEEL ELEMENTS IN SEISMIC DESIGN CATEGORIES C,D,E & F. | | | |
| E. SPECIAL INSPECTIONS AND QUALIFICATION OF WELDING SPECIAL INSPECTORS FOR COLD-FORMED STEEL FLOOR AND ROOF DECK SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF SDI QA/QC. | | | |
| F. SPECIAL INSPECTIONS OF OPEN-WEB STEEL J

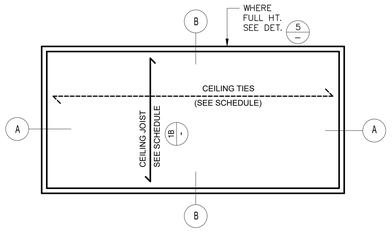
CAUTION: IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT



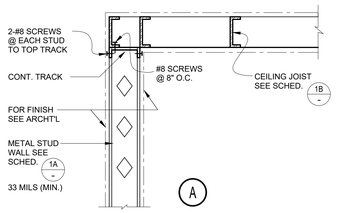

DETAIL 9

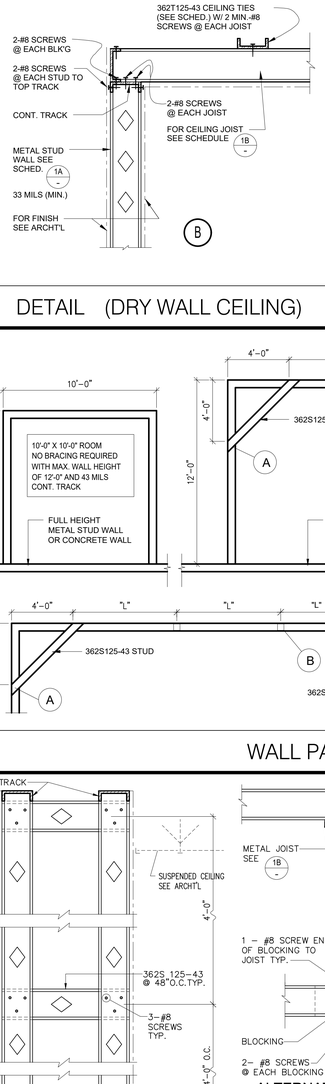



DETAIL 10

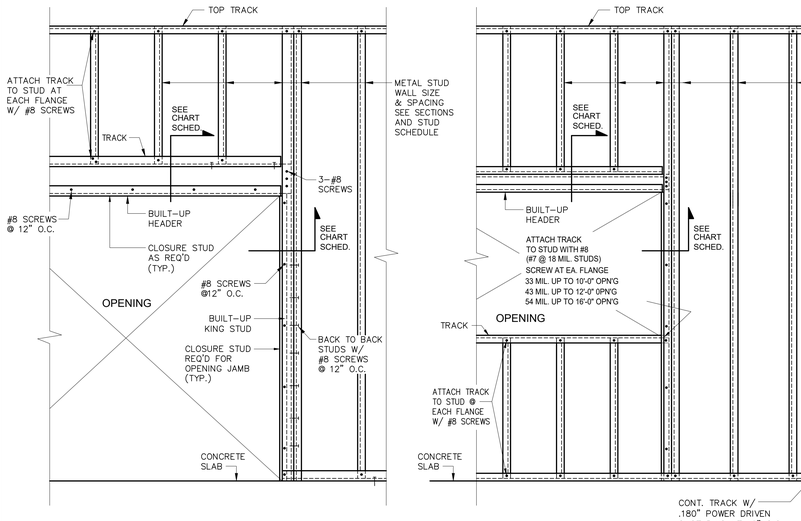



WALLS WITH CEILING JOIST




DETAIL (DRY WALL CEILING) 7




| KING STUDS | SPAN | HEADER SIZE | |
|---|---|---|---|
| 1/ TO MATCH WALL | 4'-0" | 362S 162-33 INT.<br>362S 162-43 DEMISING | SIZE OF WALL AND 33 MILS |
| 1/ PARTITION WALL | 6'-0" | 362S 162-33 INT. | SIZE OF WALL AND 33 MILS |
| 2/ DEMISING WALL | | 600S 162-43 DEMISING | SIZE OF WALL AND 33 MILS |
| 2 | 8'-0" | 600S 162-33 INT.<br>600S 162-43 DEMISING | SIZE OF WALL AND 33 MILS |
| 3 | 12'-0" | 800S 162-43 INT.<br>800S 162-54 (50 KSI) DEMISING | SIZE OF WALL AND 43 MILS |
| 3 | 16'-0" | 800S 162-54 INT.<br>800S 162-68 (50 KSI) DEMISING | SIZE OF WALL AND 54 MILS |

DETAIL (PARTIAL HEADER DETAIL) 3

## INTERIOR PARTITIONS (NON-LOAD BEARING)

1. BUILDING CODE USED IS IBC 2021 / AISI S100-2016 / CBC 2022.
2. ALL THE METAL STUDS USED SHALL BE 33 KSI U.N.O. CONFORMING TO BUILDING CODE. ALL THE METAL STUDS SHALL CONFORM TO STEEL STUD MANUF'S ASSOC., (SSMA) ICC-ESR 3064P
3. THE BRIDGING, BLOCKING OR END BEARING STIFFENERS SHALL BE AS REQUIRED BY THE MANUFACTURER UNLESS NOTED OTHERWISE ON THE DRAWINGS.
4. DRYWALL(GYPBOARD) FINISH IS ON BOTH SIDES OF WALL OR MUST BE BLOCKED/STRAPPED BY THE MANUFACTURER U.N.O.
5. UNLESS OTHERWISE NOTED ON THE PLANS, USE THE FOLLOWING GUIDELINE FOR STUD SIZE & SPACING FOR INTERIOR PARTITIONS.
6. TOP TRACK SIZE WILL BE MIN. 33MIL FOR PARTITION U.N.O.
7. DESIGN LOAD: LATERAL LOAD = 5 PSF, DEFLECTION LIMIT = L/120
8. SEE ARCHT'L FOR STUD WIDTH REQUIRED FOR FULL HEIGHT DEMISING WALL (8" STUDS MIN)

A

| METAL STUDS | SIZE (SSMA DESIGNATION) | MAXIMUM | |
|---|---|---|---|
| | | SPACING | HEIGHT |
| 3-5/8" X 25 GA | 362S125-18 | 16" | 11'-9" |
| 3-5/8" X 20 GA | 362S125-33 | 16" | 18'-9" |
| 6" X 20 GA | 600S125-33 | 16" | 25'-0" |
| 8" X 18 GA | 800S137-43 | 24" | 32'-0" |
| 8" X 18 GA | 800S200-43 | 24" | 37'-0" |
| 8" X 14 GA | 800S200-68 (50KSI) | 24" | 46'-0" |

## CEILING JOISTS (GYPBOARD CEILING)

1. BUILDING CODE USED IS IBC 2021 / AISI S100-2016 / CBC 2022.
2. ALL THE METAL STUDS USED SHALL BE 33 KSI U.N.O. CONFORMING TO BUILDING CODE.
3. STUD TRACKS SHALL BE UNPUNCHED STUDS OF SAME GAUGE AS STUD UNLESS NOTED OTHERWISE.
4. 362T125-43 CEILING TIES (SEE SCHEDULE) WITH 2 - #8 SCREWS AT EACH JOIST.
5. GYPBOARD IS ON ONE SIDE OF CEILING U.N.O.
6. DESIGN LOAD: DEAD LOAD = 5 PSF & LIVE LOAD = 10 PSF, TOTAL DEFLECTION LIMIT = L/360

B

NO STORAGE LOAD ALLOWED

| SIZE (SSMA DESIGNATION) | MAXIMUM | | CEILING TIES (BRACING) MAX. SPACING (7) |
|---|---|---|---|
| | SPACING | SPAN | |
| ** 362S125-18 (25 GA) | 16" | 6'-0" | 4'–0" |
| 362S125-33 (20 GA) | 16" | 9'-6" | 4'–0" |
| 600S125-33 (20 GA) | 16" | 14'-0" | 4'–0" |
| 800S137-43 (18 GA) | 16" | 20'-6" | 4'–0" |

** WEB STIFFENER TO BE REQUIRED AT SUPPORTS. USE STUD SEGMENT OR MIN. 25GA. CLIP ANGLE.

## EXAMPLE:

MEMBER DEPTH:
(Example: 6"=600 x 1/100 inches)
All member depths are taken in 1/100 inches
For all "I" sections member depth is the inside to insided dimension.

FLANGE WIDTH:
(Example: 1 5/8" = 1.625"=162 x 1/100 inches)
All flange widths are taken in 1/100 inches

600 S 162-54

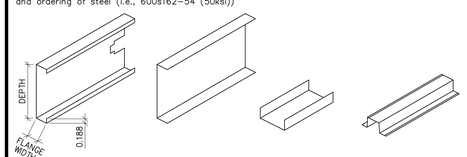
STYLE:
(Example: Stud or Joist section = S)
The four alpha characters utilized by the designator system are:

S = Stud or Joist Sections
T = Track Sections
U = Channel Sections
F = Furring Channel Sections

MATERICAL THICKNESS:
(Example: 0.054 in. = 54 mils: 1 mil = 1/1000 in.)
designator system are:

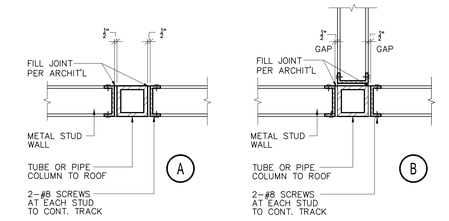
Material thickness is the minimum base metal thickness in mils. Minimum base metal thickness represents 95% of the design thickness.

Note: For those sections where two different yield strengths (33 ksi and 50 ksi) are shown, the yield strenth use in the design, if greater than 33 ksi, needs to be identified on the design and ordering of steel (i.e., 600s162–54 (50ksi))



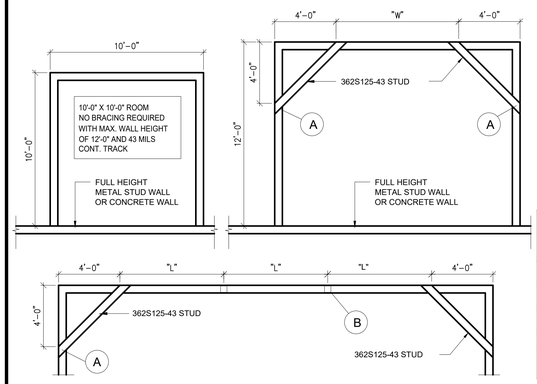

C-STUD / JOIST S-SECTIONS | TRACK T-SECTIONS | CHANNEL U-SECTIONS | FURRING CHANNEL F-SECTIONS

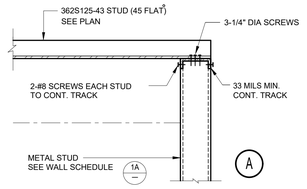
DETAIL 1



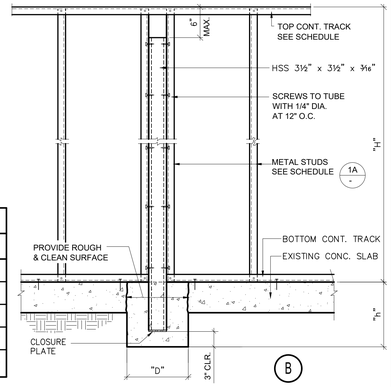

NOTE:-
PROVIDE GAP AS SHOWN AT FULL HEIGHT DEMISING WALLS ONLY. FILL JOINT PER ARCHIT'L.

DETAIL 11

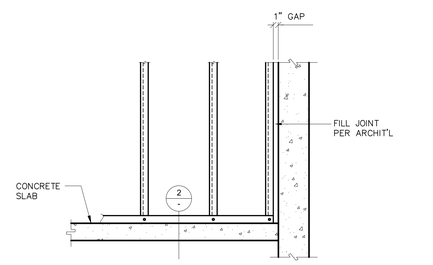


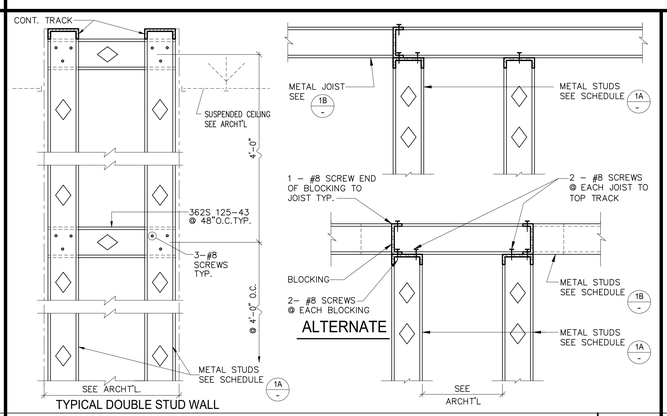

| WALL HEIGHT "H" | 33 MILS. CONT. TRACK FOR MAX. ROOM WIDE "W" | 43 MILS. CONT. TRACK FOR MAX. ROOM WIDE "W" | MAXIMUM STEEL TUBE SPACING "L" | FOOTING | |
|---|---|---|---|---|---|
| | | | | DIAMETER "D" | DEPTH "h" |
| 6'–0" | 12'–3" | 14'–6" | 12'–3" | 1'–0" | 1'–0" |
| 8'–0" | 10'–6" | 12'–6" | 10'–6" | 1'–0" | 1'–0" |
| 10'–0" | 9'–6" | 11'–3" | 8'–0" | 1'–0" | 1'–0" |
| 12'–0" | 8'–6" | 10'–3" | 8'–3" | 2'–0" | 3'–0" |
| 14'–0" | 8'–0" | 9'–6" | 8'–0" | 2'–0" | 3'–6" |



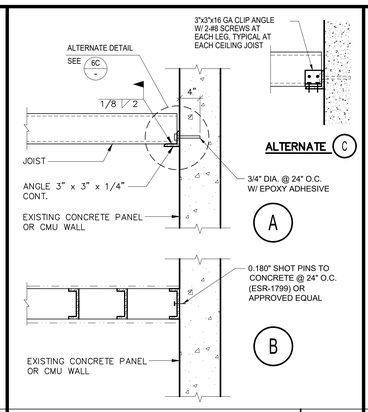

WALL PARTITION BRACE LAYOUT (WALLS WITHOUT CEILING JOISTS) 4



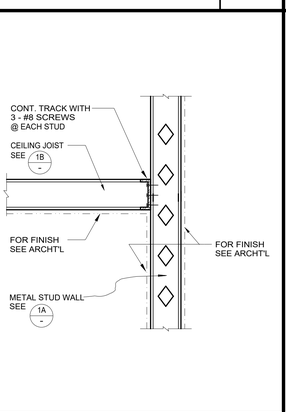

DETAIL 12



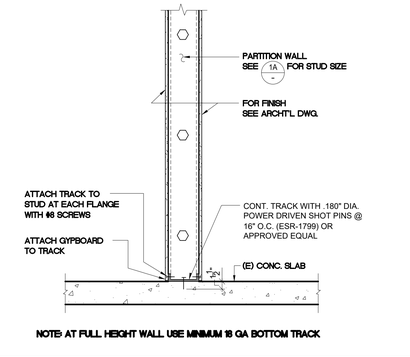

DETAIL 8




DETAIL 6




JOIST TO STUD DETAIL 5




PARTITION WALL DETAIL 2

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EXP. 06-30-25
5/17/2024
STRUCTURAL
STATE OF CALIFORNIA

HSA & ASSOCIATES, INC.
CONSULTING STRUCTURAL ENGINEERS
781 N. Lake Ave., 5th. Floor
Pasadena, CA 91104
Tel: (626) 521-0931
HSA PROJECT NO. 22-238

# CONCORD - WILLOW PASS PROJECT
4658 EVORA ROAD
CONCORD, CALIFORNIA 94520

| REMARKS |
|---|
| Permit Set |

DATE 05-16-24

| | |
|---|---|
| PA/PM: | A. GHOORCHIAN |
| DRAWN BY.: | Author |
| JOB NO.: | SNR24-0001-00 |

SHEET
SD-1

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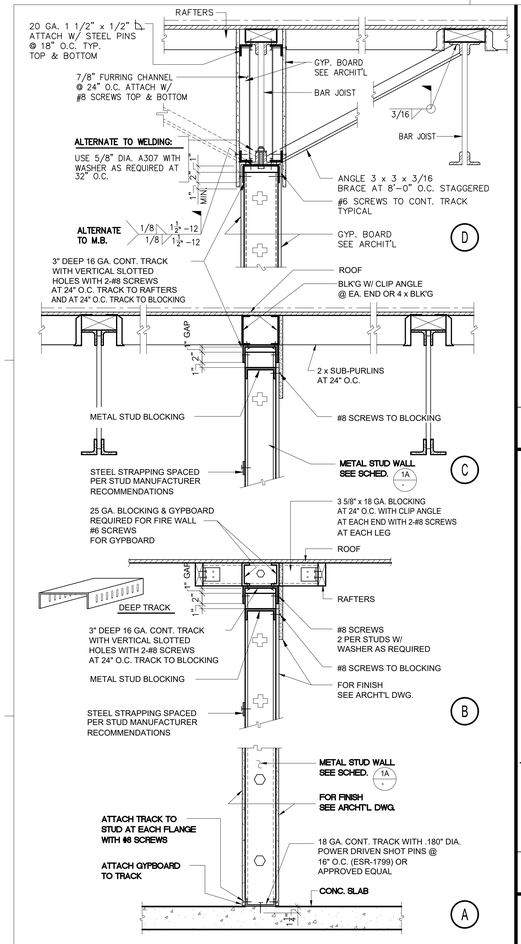
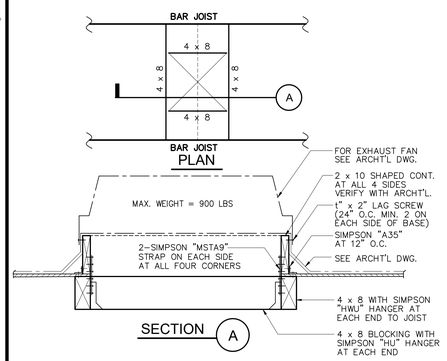
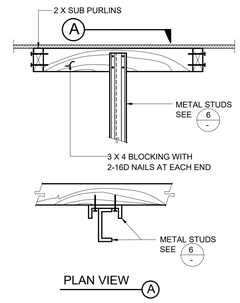


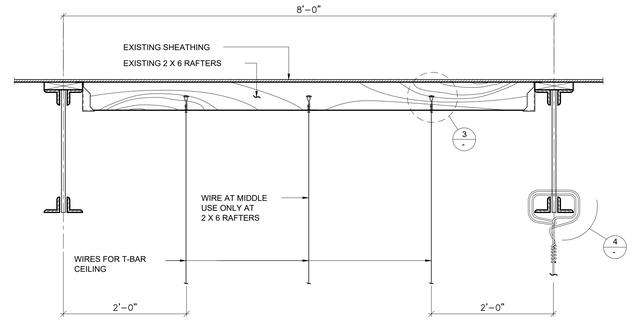

DETAIL | 12



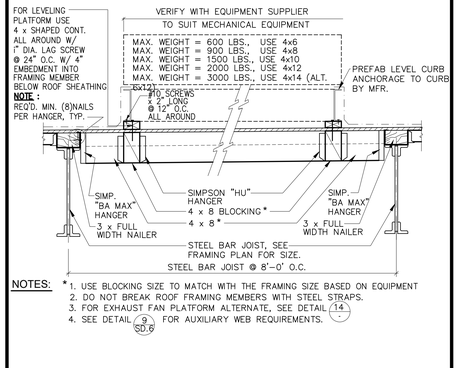

EXHAUST FAN PLATFORM DETAIL | 10



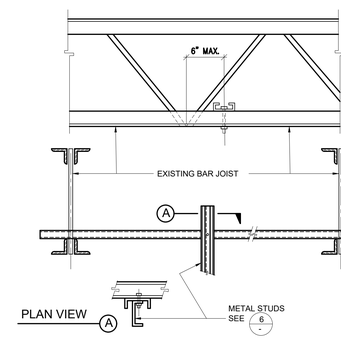

DETAIL (T-BAR CEILING ) | 7



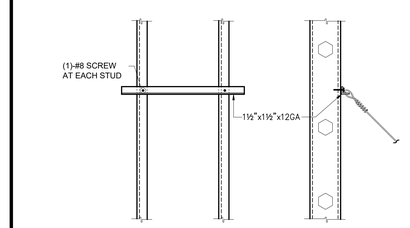

WIRE LOCATIONS | 1



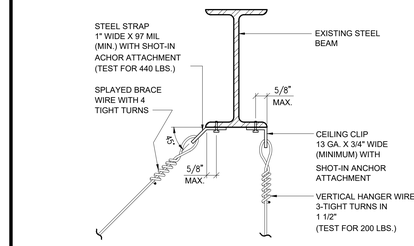

MECHANICAL PLATFORM DETAIL | 11



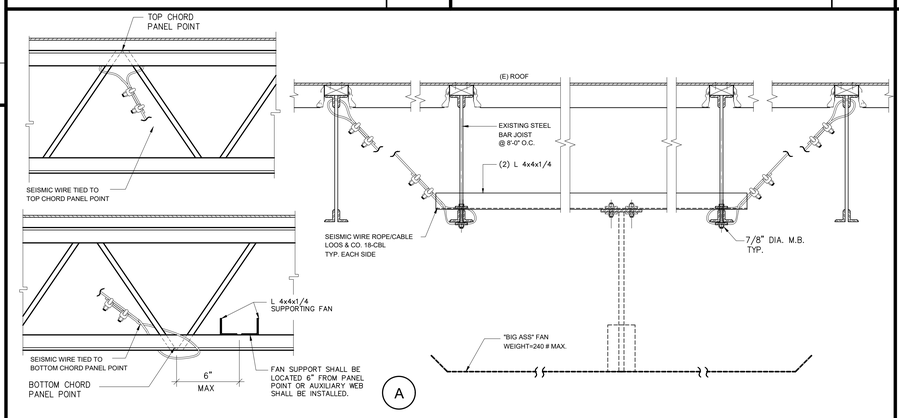

CEILING STRUT DETAILS | 8

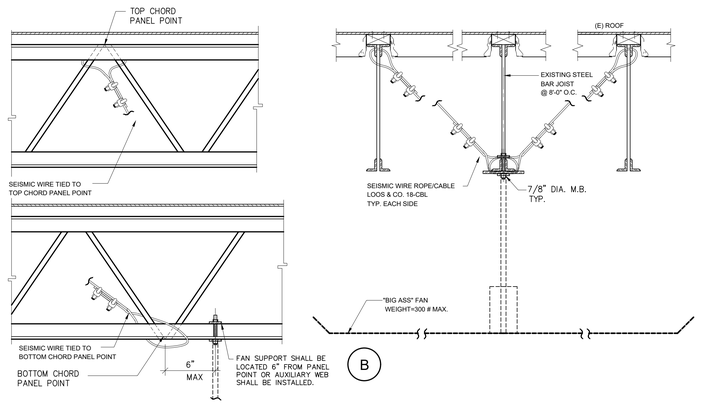



WIRE AT METAL STUDS | 5




WIRE AT STEEL BEAM | 2

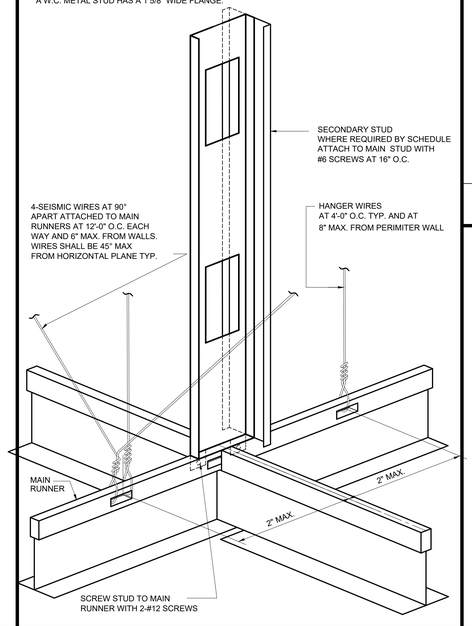


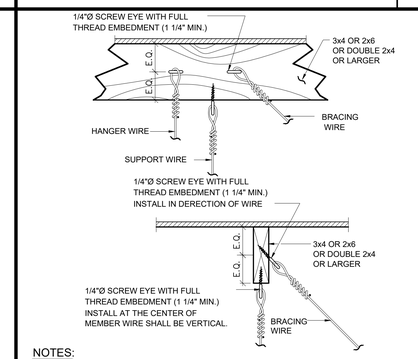

HVLS DETAIL | 9

| SCHEDULE | | | |
|---|---|---|---|
| METAL STUDS | SIZE (SSMA DESIGNATION) | MAX. HT. OF COMPRESSION STRUT | |
| | | SINGLE STUD | DOUBLE STUD |
| 2 1/2" x 20 GA. | 250S125-33 | 7'-0" | 16'-6" |
| 3 5/8" x 20 GA. | 362S125-33 | - | 23'-0" |
| 3 5/8" x 18 GA. | 362S137-43 | 8'-0" | 23'-6" |
| 6" x 20 GA. | 600S125-33 | - | 36'-0" |
| 6" x 18 GA. | 600S137-43 | - | 37'-0" |
| 8" x 18 GA. | 800S137-43 | - | 47'-6" |

NOTES:
1. FOR DOUBLE STUD ATTACH WEB TO FLANGE WITH NO. 6 SCREW @ 16" O.C. U.B.C.
A S.S. METAL STUD HAS A 1 1/4" WIDE FLANGE
A W.C. METAL STUD HAS A 1 5/8" WIDE FLANGE.

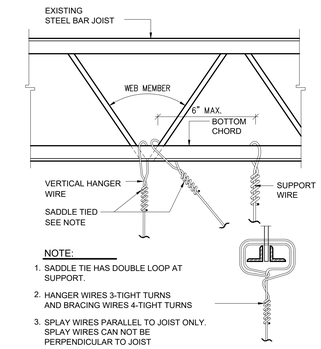



T-BAR CEILING STRUT DETAIL & SCHED. | 6




NOTES:
1. NO PIPES, CEILING ,DUCTS ETC. WILL BE SUPPORTED FROM THE 2x4 RAFTER
2. ONLY T BAR CEILING HANGER CAN BE SUPPORTED FROM THE BOTTOM OF 3x4 OR 2x6 MEMBERS
3. MAX. LOAD PER HANGER = 50 LBS.

WIRE AT RAFTERS | 3




NOTE:
1. SADDLE TIE HAS DOUBLE LOOP AT SUPPORT.
2. HANGER WIRES 3-TIGHT TURNS AND BRACING WIRES 4-TIGHT TURNS
3. SPLAY WIRES PARALLEL TO JOIST ONLY. SPLAY WIRES CAN NOT BE PERPENDICULAR TO JOIST
4. MAX. LOAD PER HANGER = 50 LBS.

WIRE AT STEEL BARJOIST | 4

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781 N. Lake Ave., 5th Floor
Pasadena, CA 91104
Tel: (626) 521-9931
HSA PROJECT NO. : 22-238
Revised by: MAS/AA

# CONCORD - WILLOW PASS PROJECT
4658 EVORA ROAD
CONCORD, CALIFORNIA 94520

| REMARKS |
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| Permit Set |
| DATE |
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| JOB NO.: | SNR24-0001-00 |

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SD-2

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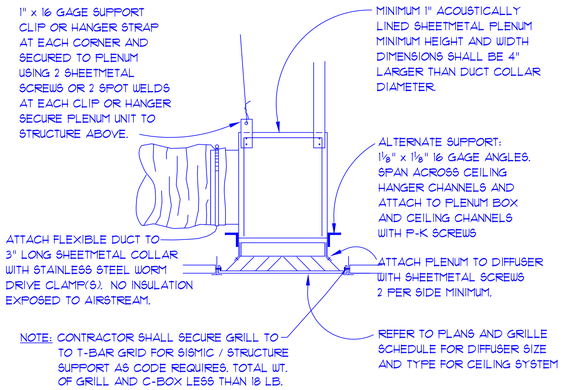
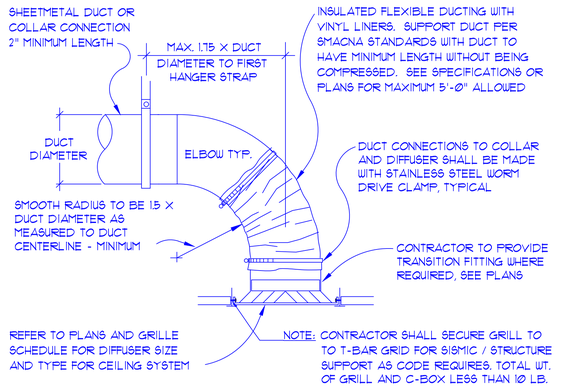


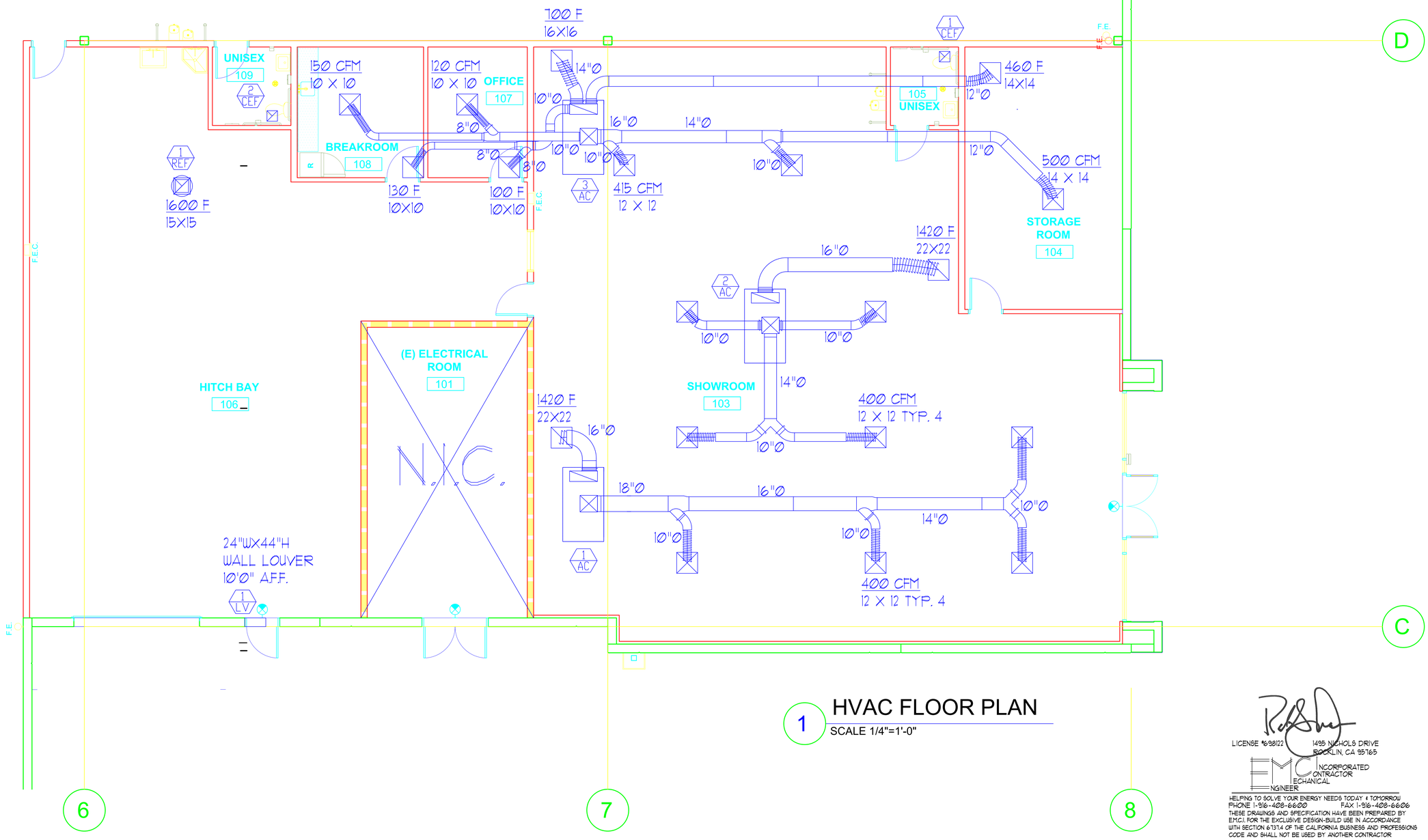

CONFINED DIFFUSER INSTALLATION DETAIL — 1 / M.1

SCALE: NONE
T-BAR CEILING




UNCONFINED DIFFUSER MOUNTING — 2 / M.1

SCALE: NONE
T-BAR CEILING




# 1 HVAC FLOOR PLAN

SCALE 1/4"=1'-0"

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P 925.244.9620

U-HAUL TENANT IMPROVEMENT
4658 EVORA ROAD
CONCORD, CALIFORNIA 94520

HVAC FLOOR PLAN

| DATE | REMARKS |
|---|---|
| 08/17/2024 | PERMIT SUBMITTAL |

| | |
|---|---|
| R.S.J.: | Approver |
| DRAWN BY.: | R.S.J. |
| JOB NO.: | 24021 |

SHEET
M.1

THESE PLANS ARE THE PROPERTY OF WARE MALCOMB AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF WARE MALCOMB

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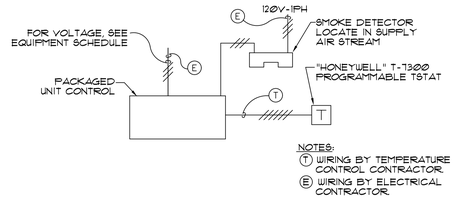
# GENERAL NOTES

1. ALL WORK WILL COMPLY WITH THE 2022 CALIFORNIA MECHANICAL CODE (CMC 2022) FOR HVAC WORK SHOWN ON THE DRAWINGS ALL EQUIPMENT AND MATERIALS SHALL BE EQUAL IN QUALITY, TYPE, CAPACITIES, EFFICIENCIES AND ACCESSORIES AS NOTED ON DRAWINGS. PROTECT ALL UNDERGROUND INSTALLATIONS FROM DAMAGE DO TO MECHANICAL WORK.
2. INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH LATEST EDITION OF ASHRAE GUIDE AND SMACNA MANUAL AND ALL MECHANICAL EQUIPMENT SHALL BE STRAPPED OR BRACED TO RESIST EARTHQUAKE MOTION PER CMC 303.4 AND ASHRAE SEISMIC RESTRAINT MANUAL, AND "ASCE SEISMIC DESIGN REQUIREMENTS FOR NONSTRUCTURAL COMPENTS" CHAPTER 13 SECTION 13.6.7 DUCTWORK UNDER 10 LB/FT, OR LESS THEN 12" FROM SUPPORTING STRUCTURE OR LESS THEN 6 SQUARE FEET (29"X29") ARE EXEMPT FOR SEISMIC RESTRAINT/BRACING. PERMANENT IDENTIFICATION OF ALL EQUIPMENT IN BUILDING UNIT I.D. AND SPACE SERVED PER CMC 303.6
3. INSULATE ALL UNLINED INTERIOR SUPPLY AND RETURN DUCTWORK WITH 1 1/2" THICK 3/4 LB. DENSITY FIBERGLASS TYPE INSULATION. INSULATION SHALL MEET 2022 CMC 604.1 FOR A FLAME SPREAD OF NOT MORE THAN 25 AND SMOKE-DENSITY NOT TO EXCEED 50 WHEN TESTED AS A COMPOSITE INSTALLATION. (MODEL KNAUK OR EQUAL) TAPE ALL JOINTS PRIOR TO INSULATING. R-6 MIN DUCT INSULATION
4. FABRICATE AND INSTALL DUCTWORK IN ACCORDANCE WITH LATEST EDITION OF ASHRAE GUIDE, SMACNA MANUAL AND CMC 2022 CHAPTER 6 DUCT SYSTEMS. FACTORY-MADE AIR DUCT FOLLOW SECTION 603.3 SEAL ALL DUCT WORK AND JOINTS WITH APPROVED U.L. 181 COMPLIANT MATERIALS PER SECTION 124 (B) CES. R-6 MIN DUCT INSULATION FLEXIBLE DUCT AND CONNECTORS SHALL NOT EXCEED 5'-0" MAX LENGTH AND SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS PER CMC 603.3.4.1.
5. INTERNALLY LINE ALL DUCTWORK EXPOSED TO THE WEATHER AND 10'- 0" FROM FAN UNIT WITH 1" THICK 1 1/2 LB. LINER SHALL MEET CMC 2022 STD. 604 FOR MOLD, HUMIDITY AND EROSION RESISTANT SURFACE. ( MODEL KNAUF DUCT LINER M OR EQUAL) ALL MATERIALS EXPOSED WITH IN DUCTS OR PLENUMS SHALL HAVE A FLAME SPREAD INDEX OF NO MORE THAN 25 AND A SMOKE-DEVELOPMENT RATING OF NOT MORE THAN 50 DUCT SIZIE SHOWN ARE NET EXTERNAL WITH LINER. R-6 MIN DUCT INSULATION
6. CONTROLS SHALL SEQUENCE HEATING AND COOLING WHEN APPLIED TO A UNIT CAPABLE OF BOTH. THERMOSTATS SHALL HAVE LOCKABLE SETPOINT LIMITS WITH THE CAPABILITY OF TERMINATING COOLING AT 85F AND HEATING AT 55F. THERMOSTATS SHALL HAVE AN ADJUSTABLE RANGE UP TO 10F. OUTSIDE AIR DAMPERS SHALL CLOSE ON FAN SHUT-DOUN. EACH SYSTEM SHALL BE CONTROLLED BY A TIME CLOCK WITH NIGHT SET-BACK OR BMS SYSTEM
7. UNLESS INDICATED OTHERWISE PULL A MINIMUM OF 8 WIRES BETWEEN THERMOSTAT AND UNIT TO ALLOW FOR FUTURE CHANGES MOUNT @ 4'-0".
8. CONTRACTOR SHALL START UP SYSTEMS AND BALANCE TO THE SATIS-FACTION OF OUNER/ARCHITECT. MAXIMUM TEMPERATURE DIFFERENTIAL IN SPACE SHALL NOT EXCEED 2F.
9. CONTRACTOR WILL RETURN ALL WARRANTY CARDS TO APPLICABLE FACTORIES AND WILL LEAVE A COPY OF INSTALLATION AND SERVICE INSTRUCTIONS FOR ALL HEATING AND AIR CONDITIONING EQUIPMENT, ENCASED IN A HEAVY DUTY MANILA ENVELOPE WITH THE OUNER. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE.
10. PROVIDE APPROVED SMOKE DUCT DETECTORS FOR ALL AIR HANDLING UNITS SUPPLY AIR STREAM IN EXCESS OF 2000 CFM TO AUTOMATICALLY SHUT DOUN UNIT UPON DETECTION OF SMOKE MAXIMUM OF 10 SECONDS. DETECTORS SHALL MEET CMC 2019 SECTION 608 SHALL MET FOR AIR HANDLING UNITS (AHU) AIR MOVING SYSTEMS GLOBAL / AGGREGATE SIMULTANEOUS SMOKE SHUT DOUN OF AREA SERVED PER CSFM INTERPRETATION # 02-2014 & 08-2015 UPON ACTIVATION OF ANY SINGLE DUCT SMOKE DETECTOR, ALL HVAC DUCT SMOKE DETECTORS SHALL BE CONNECTED TO THE BUILDING FIRE ALRAM PANEL TO INITIATE A SUPERVISORY ACTIVATION, BE INTERCONNECTED AND SHALL SHUT DOUN ALL UNITS SIMULTANEOUSLY UPON ACTIVATION OF ANY ONE SINGLE DETECTOR. ALL DUCT SMOKE DETECTORS SHALL BE TESTED BY CALIBRATED MANOMETER PROVIDED BY THE INSTALLING CONTRACTOR TO INSURE AIR VOLUME AND VELOCITIES ARE WITHIN THE TOLERANCES SPECIFICATIONS OF THE RATINGS REQUIRED BY THE MANUFACTURE'S DATA OF EACH DUCT SMOKE DETECTOR PER 2022 CFC SEC. 907.3.1 2022 NFPA SEC. 72 17.7.4 AND 2022 CMC SEC. 608
11. DESIGN COMPLIANCE STATEMENT: DUCT SYSTEMS PER 601.2, ASHRAE OR ACCA. THE ENERGY CONSERVATION STANDARDS OF CALIF. ADMIN. CODE, TITLE 24, DIV. T20, ART.2 HAVE BEEN REVIEWED AND THIS DOCUMENT CONFIRMS SUBSTANTIALLY WITH THESE REGULATIONS FOR CBC OCCUPANCY.
12. PROVIDE APPROVED SMOKE DUCT DETECTORS FOR ALL AIR HANDLING UNITS SUPPLY AIR STREAM IN EXCESS OF 2000 CFM TO AUTOMATICALLY SHUT DOUN UNIT UPON DETECTION OF SMOKE MAXIMUM OF 10 SECONDS. DETECTORS SHALL MEET CMC 2019 SECTION 608 SHALL MET FOR AIR HANDLING UNITS (AHU) AIR MOVING SYSTEMS GLOBAL / AGGREGATE SIMULTANEOUS SMOKE SHUT DOUN OF AREA SERVED PER CSFM INTERPRETATION # 02-2014 & 08-2015 UPON ACTIVATION OF ANY SINGLE DUCT SMOKE DETECTOR, ALL HVAC DUCT SMOKE DETECTORS SHALL BE CONNECTED TO THE BUILDING FIRE ALRAM PANEL TO INITIATE A SUPERVISORY ACTIVATION, BE INTERCONNECTED AND SHALL SHUT DOUN ALL UNITS SIMULTANEOUSLY UPON ACTIVATION OF ANY ONE SINGLE DETECTOR. ALL DUCT SMOKE DETECTORS SHALL BE TESTED BY CALIBRATED MANOMETER PROVIDED BY THE INSTALLING CONTRACTOR TO INSURE AIR VOLUME AND VELOCITIES ARE WITHIN THE TOLERANCES SPECIFICATIONS OF THE RATINGS REQUIRED BY THE MANUFACTURE'S DATA OF EACH DUCT SMOKE DETECTOR PER 2022 CFC SEC. 907.3.1 2022 NFPA SEC. 72 17.7.4 AND 2022 CMC SEC. 608
13. COMBUSTION VENTS SHALL BE AT LEAST 4'-0" FROM AND 1'-0" ABOVE DOORS, WINDOUS OR OTHER INLETS INTO THE BUILDING AND SHALL BE AT LEAST 10'-0" FROM AND 3'-0" ABOVE ANY MECHANICAL AIR INTAKE PER CMC 2022 CHAPTER 8
14. TERMINATION OF ENVIROMENTAL AIR DUCT SHALL BE AT LEAST 3'-0" FROM A PROPERTY LINE AND 3'-0" OPENING INTO THE BUILDING CMC 502.0-2.3 EXHAUST OUTLETS SHALL BE AT LEAST 10'-0" FROM AND 3'-0" ABOVE ANY MECHANICAL AIR INTAKE PER CMC 2022 CHAPTER 8
15. IDENTIFICATION OF ALL ROOF TOP HVAC EQUIPMENT SHALL BE PERMANENTLY IDENTIFIED TO SHOW SUITE OR SPACE NAME AND THE INDOOR THERMOSTAT TO MATCH SPACE OR ZONE FOR TENANT USES PER 2022 CMC 307.1
16. PROVIDE AIR BALANCE TEST DOCUMENTATION CERTIFIED TO NEBB STANDARDS TO THE FEILD INSPECTOR PRIOR TO FINAL INSPECTION COMPLIANT TO 2022 BUILDING ENERGY EFFICIENCY STANDARDS
17. ALL FLEX DUCT WILL BE ATCO MODEL UFC # 036 UL 181 CLASS 1 FACTORY-MADE R-VALUE 6.0 CODE COMPLIANCE: UL 181, NFPA 90A & 90B, CMC,IMC,IRC & C.S.F.M.
18. PROVIDE APPROVED SEALANT INFORMATION WHERE PENETRATING THROUGH A FIRE RATED WALL OR FLOOR TO THE FIELD INSPECTOR AT THEIR REQUEST.
19. REQUIRED MINIMUM OSA / VENTILATION RATES PER 2022 CMC 401 &TABLE 402.1 -403.7 WILL BE PREFOREMED ADJUSTED AND CERTIFIED BY A STATE OF CALIFORNIA LICENSED C-20 MECHANICAL CONTRACTOR PER CALIFORNIA BUSINESS & PROFESSIONS CODE. 2022 CBC 1203.1 IN ACCORDANCE WITH CGBC 5.410.4.3.1. COMMERCIAL KITCHEN TO USE CERTIFIED AIR BALANCER PER CODE. 2022 CMC 511.2.2
20. ALL ELECTRICAL , ALARM, TELECOMMUNICATIONS, COMPUTER WIRING AND ANY MATERIALS EXPOSED WITH DUCTS OR RETURN AIR PLENUMS SHALL BE RATED FOR THE USE IN PLENUMS AND SHALL HAVE A FLAME-SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED RATING OF NOT MORE THAN 50. 2022 CMC SECTION 602.2 AND 2022 CEC ART. 300.22. DUCT INSULATION, LINER, TAPE AND ADHESIVES SHALL HAVE A FLAME-SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPMENT RATING OF NOT MORE THEN 50 2019 CMC SECTION 604.0
21. PROVIDE CO2 SENSOR FOR DENSITY OCCUPIED SPACE 50 PEOPLE PER 1000 SQFT AREA (I.E. CONFERENCE ROOM, BREAK ROOMS). THE SENSOR SHALL BE LOCATED 3'-0" TO 6'-0" ABOVE FLOOR PER TITLE 24 NONRESIDENTIAL STANDARDS SECTION 121-A-C AND COMPLY WITH CMC TABLES 402.1 MINIMUM VENTILATION RATES IN BREATHING ZONE




1 / M.2 TYPICAL AC UNIT CONTROL DIAGRAM

NO SCALE MHVCD05B

# MECHANICAL MANDATORY MEASURES 2022 TITLE 24 CHECKLIST

EQUIPMENT AND SYSTEMS EFFICIENCY

Any appliance for which there is a California standard established in the Appliance Efficiency Standards may only be installed if the manufacturer has certified to the Commission that the applicance complies with the applicable standard. See equipment schedule for min cooling SEER/EER and heating HSPF/COP T-24 section 110.1 AND 110.2 and Economizer per section 140.4.9(e)

Fan type central furnaces shall not have a pilot light. T-24 section 110.2(d)

Air handling duct systems shall be constructed, installed, sealed and insulated as provided in 2022 of the Uniform Mechanical Code. T-24 section 110.2(f)

Guards shall be provided in 2022 CBC Section 1015.6 Code for components that require service that are located within 10 feet of a roof edge or opening side that is 30" above the floor or finished grade.

All outdoor Condensing units shall be fitted with locking type tamper resistant caps at refrigerant ports per CMC 1106.14

All outdoor Condensing units shall be mounted on concrete housekeeping pads that shall be no less then 3" above grade per CMC 1105.2 per CMC 1105.2

Provide attic opening and passageway no smaller then the largest componet of the appliance with min size of 22"X30" per CMC 304.4

Where hieght of passageway is less than 6' the distance from the passagaway access to the appliance shall not exceed 20' measured along the centerline of the passageway per CMC 304.4.1

The width of the passageway shall be unobstructed and shall have solid flooring not less then 24" wide from opening to appliance per CMC 304.4.2

A level working platform not less than 30"X30" be provided in front of the service side of the appliance per CMC 304.4.3

A permanent 120-volt receptable outlet and light fixture shall be installed near the appliance per CMC 304.4.4

CONTROLS SECTION T-24 section 120.2 as required

Each space conditioning system shall be installed with one of the following:

An automatic time switch with an accessible manual override that allows operation of the system during off-hours for up to 4 hours. The time switch shall be capable of programming different schedules for weekdays and weekends& incorporate an automatic holiday "shut-off" feature that turns off all loads for at least 24 hours, then resumes the normally scheduled operation& and has program backup capabilities that prevent the loss of the device's program and time setting for at least 10 hours if power is interrupted& or

An occupancy sensor to control the operating period of the system& or

A 4-hour timer that can be manually operated to control the operating period of the system.

Each space conditioning system shall be installed with controls that temporarily restart and temporarily operate the system as required to maintain a setback cooling thermostat setpoint.

Each space conditioning system serving multiple zones with a combined floor area more than 25,000 square feet shall be provided with isolation zones. Each zone: shall not exced 25,000 square feet& shall be provided with isolation devices, such as valves or dampers, that allow the supply of heating or cooling to be setback or shut off independently of other isolation areas& and shall be controlled by a time control device as described above.

Each space conditioning system shall be controlled by an individual thermostatic control that responds to temperature within the zone. Where used to control heating, the control shall be adjustable down to 55 degrees F or lower. For cooling, the control shall be adjustable up to 85 degrees F or higher. Where used to control both heating and cooling, the control shall be capable providing a dead bank of at least 5 degrees F within which the supply of heating and cooling is shut off or reduced to a minimum.

Thermostats shall have numeric setpoints in degress Fahrenheit (F)

Thermostats shall have adjustable setpoint stops accessible only by authorized personnel.

Heat pumps shall be installed with controls to prevent electric resistance supplementary heater operation when the heating load can be met by a heat pump alone. Electric resistance supplementary heater operation is permitted during transient periods, such as start-ups and following room thermostat setpoint advance, when controls are provided which use preferential rate control, intelligent, recovery, staging, ramping, or similar control mechanisms designed to preclude the unnecessary operation of supplementary heating during the recovery period. Supplementary heater operation is also permitted during defrost.

VENTILATION SECTION T-24 section 120.1 as required

Controls shall be provided to allow outside air dampers or devices to be operated at the ventilation rates as specified on these plans. All installed economizers shall include a Fault Dectction and Diagnostics (FDD) system

Gravity or automatic dampers interlocked and closed on fan shutdoun shall be provided on the outside air intakes and discharges of all space conditioning and exhaust systems.

All gravity ventilating systems shall be provided with automatic or readily accessible manually operated dampers in all openings to the outside, except for combustion air openings.

Air Balancing: All space conditioning and ventilation systems shall be balanced to the quantities specified in these plans, in accordance with the National Environmental Balancing Bureau (NEBB) Procedural Standards (1983.), or Associated Air Balance Council (AABC) National Standards (1936.) and in accordance with CGBC 5.410.4.3.1.

Outside Air Certification: The system shall provide the minimum outside air as shown on the mechanical drawings with Merv-13 filters, and shall be measured and certified by the installing licensed C-20 mechanical contractor.

DUCT INSULATION SECTION T-24 section 120.4.

All duct systems shall be provided with min of R-6 duct insulation for interior space and R-8 for exterior

CALGREEN SECTION 5.410

Provide HVAC balance reports, Operation and Maintenance Manual and inspection reports to owner at end for project.

CALGREEN SECTION 5.504

All new hvac units and duct systems shall be covered during construction, Existing system shall have construction filter Merv 13 on return opening or seal system while under constrction to keep system clean, provide temorary ventilation as needed per project as needed. All new HVAC system to provide Merv 13 filters per CMC 401.2 prior to air balance.

CALGREEN SECTION 5.506

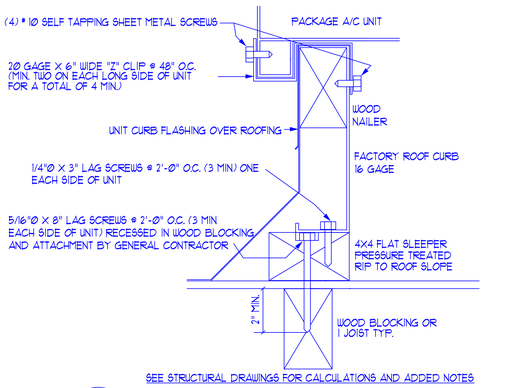
Outside Air Certification: The system shall provide the minimum outside air as shown on the mechanical drawings, and shall be measured and certified by the installing licensed C-20 mechanical contractor. And meet current California energy code, and Division 1 chapter4 of CCR, title 8 which ever in more stringent. C02 monitoring or Equipment with demand control ventilation, C02 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the 2022 CEC setion 120(c)(4)

CALGREEN SECTION 5.508

Certification that system shall meet and be installed per section 5.508.1 through 5.508.1.4 No HFC's or CFC's in refrigeration equipment.

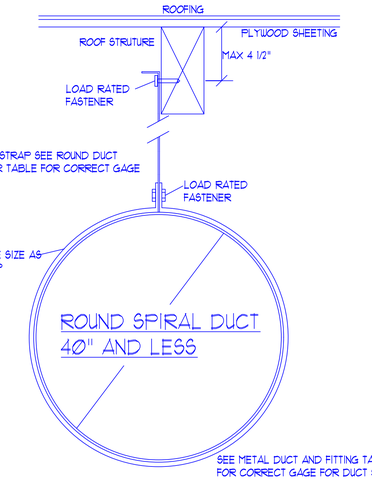
PROSCRIPTIVE MEASURES T-24

This project was ran as preformace title 24 complices, N/A for t-24 section 140 and section 140.1




SEE STRUCTURAL DRAWINGS FOR CALCULATIONS AND ADDED NOTES

2 / M.2 " UNIT TO ROOF CURB SEISMIC DETAIL "




HANGER STRAPS OR RODS

| MAX DUCT DIAMETER | HANGER | MAX LOAD LBS | MAX SPACING FEET |
|---|---|---|---|
| 14"Ø | ONE 12 GAGE WIRE | 60 | 10'-0" |
| 23"Ø | ONE 12 GAGE WIRE | 100 | 10'-0" |
| 26"Ø | ONE 1"X22 GAGE STRAP | 260 | 10'-0" |
| 36"Ø | ONE 1"X18 GAGE STRAP | 420 | 10'-0" |
| 50"Ø | ONE 1"X16 GAGE STRAP | 700 | 10'-0" |
| 60"Ø | TWO 3/8" DIA RODS | 1320 | 10'-0" |
| 84"Ø | TWO 1/2" DIA RODS | 2500 | 10'-0" |

TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOADS

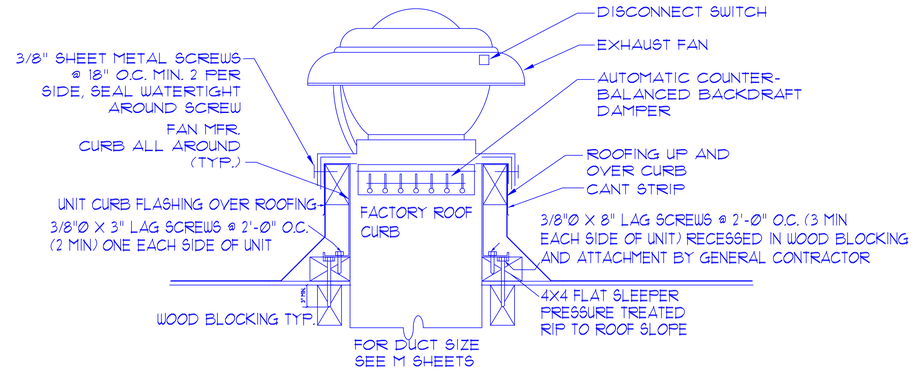
DUCT WEIGHTS 10'-0" LENGHT

| MAX DUCT DIAMETER | HANGER | TOTAL LOAD LBS | LENGTH FEET |
|---|---|---|---|
| 14"Ø | ONE 12 GAGE WIRE | 42 | 10'-0" |
| 23"Ø | ONE 12 GAGE WIRE | 85 | 10'-0" |
| 26"Ø | ONE 1"X22 GAGE STRAP | 116.9 | 10'-0" |
| 36"Ø | ONE 1"X18 GAGE STRAP | 161.9 | 10'-0" |
| 50"Ø | ONE 1"X16 GAGE STRAP | 271.2 | 10'-0" |
| 60"Ø | TWO 3/8" DIA RODS | 325.5 | 10'-0" |
| 80"Ø | TWO 1/2" DIA RODS | 561.0 | 10'-0" |

TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOADS

4 / M.2 ROUND DUCT HANGER DETAIL

SCALE NONE




SEE STRUCTURAL DRAWINGS FOR CALCULATIONS AND ADDED NOTES

3 / M.2 REF MOUNTING DETAIL

SCALE-NONE

## EQUIPMENT SCHEDULE

(AC-1, AC-2) LENNOX 4 TON PACKAGE GAS/ELE. MODEL NO. KGB048B4B 1600 CFM @ 1.0 SP. GAS INPUT 65.0 MBH GAS OUTPUT 52.0 MBH POWER 208/3/60 Hz MCA. 23.0 MOP 30 ACCESSORIES FACTORY ROOF CURB, FACTROY SUPPLY SMOKE DETECTORS, OSA ECONOMIZER DAMPER WITH POWER EXHUAST SET TO 180 CFM WT. 800 LB. SEER 14.0 AFUE. 80%

(REF) GREENHECK ROOF EXHAUST FAN MODEL NO. G-120-VG 1600 CFM @ 1.0 SP. POWER 120/1/60 Hz MCA 3.8 MOP 15 ACCESSORIES: FACTORY ROOF CURB WITH B.D.D. VARI-GREEN EC MOTOR WITH MOUNTED POTENTIOMETER DAIL WT. 65 LB

(EF-1, EF-2) BROAN CEILING EXHAUST FAN MODEL NO. L100 70 CFM @ 0.125 SP. POWER 120/1/60 Hz ACCESSORIES: B.D.D. 6"Ø TO ROOF JACK

(LV) GREENHECK STATIONARY FABRICATED LOUVERS MODEL ESJ-602 44"H X 24"W WITH BIRDSCREEN & MILL FINISH WITH 2" MERV 13 FILTERS 1600 CFM, VELOCITY 490 FPM WT. 22 LB.

SUPPLY REGISTERS ARE J & J MODEL 1444 MODE CORE

RETURN REGISTERS ARE J & J MODEL ALEC CUBE CORE

SEE STRUCTURAL DRAWINGS FOR CALCULATIONS AND ADDED NOTES


LICENSE #938122 1495 NICHOLS DRIVE ROCKLIN CA 95765

EMC INCORPORATED CONTRACTOR MECHANICAL ENGINEER

HELPING TO SOLVE YOUR ENERGY NEEDS TODAY & TOMORROW
PHONE 1-916-408-6600 FAX 1-916-408-6606



THESE DRAWINGS AND SPECIFICATION HAVE BEEN PREPARED BY E.M.C.I. FOR THE EXCLUSIVE DESIGN-BUILD USE IN ACCORDANCE WITH SECTION 6737.4 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE AND SHALL NOT BE USED BY ANOTHER CONTRACTOR



WARE MALCOMB
ARCHITECTURE PLANNING INTERIORS
CIVIL ENGINEERING BRANDING BUILDING MEASUREMENT
4683 Chabot Dr. Suite #300 Pleasanton, CA 94588 P 925.244.9620


U-HAUL TENANT IMPROVEMENT
4658 EVORA ROAD
CONCORD, CALIFORNIA 94520

HVAC DETAIL SPEC. PLAN

| DATE | REMARKS |
|---|---|
| 05/17/2024 | PERMIT SUBMITTAL |

| | |
|---|---|
| R.S.J.: | Approver |
| DRAWN BY.: | R.S.J. |
| JOB NO.: | 24021 |

SHEET M.2

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## BUILDING ENERGY ANALYSIS REPORT

**PROJECT:**

U-HAUL TENANT IPROVEMENT
4658 EVORA ROAD
CONCORD, CA 94520

**Project Designer:**

WARE MALCOMB
4683 CHABOT DRIVE SUITE # 300
PLEASANTON, CA 94588
1-925-244-9620

**Report Prepared by:**

Rob Jensen
R & R ENTERPRISE
1495 Nichols Drive
Rocklin, CA 95765
1-916-408-6600

**Job Number:**

24021

**Date:**

5/4/2024

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2022 Building Energy Efficiency Standards.

This program developed by EnergySoft, LLC – www.energysoft.com.

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**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — NRCC-PRF-E
**Nonresidential Performance Compliance Method** — (Page 1 of 15)
**Project Name:** U-HAUL WILLOW PASS — **Date Prepared:** 2024-05-04

**A. General Information**

| | | | | |
|---|---|---|---|---|
| 1 | Project Name | U-HAUL WILLOW PASS | | |
| 2 | Run Title | Title 24 Analysis | | |
| 3 | Project Location | 4658 EVORA ROAD | | |
| 4 | City | CONCORD | 5 | Standards Version | Compliance 2022 |
| 6 | Zip code | 94520 | 7 | Compliance Software (version) | EnergyPro 9.1 |
| 8 | Climate Zone | 12 | 9 | Building Orientation (deg) | 90 |
| 10 | Building Type(s) | • Nonresidential | 11 | Weather File | BUCHANAN-FIELD_STYP20.epw |
| 12 | Project Scope | • Existing alteration | 13 | Number of Dwelling Units | 0 |
| 14 | Total Conditioned Floor Area in Scope ($ft^2$) | 3516 | 15 | Total # of hotel/motel rooms | 0 |
| 16 | Total Unconditioned Floor Area ($ft^2$) | 0 | 17 | Fuel Type | Natural gas |
| 18 | Nonresidential Conditioned Floor Area | 3516 | 19 | Total # of Stories (Habitable Above Grade) | 1 |
| 20 | Residential Conditioned Floor Area | 0 | | | |



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — NRCC-PRF-E
**Nonresidential Performance Compliance Method** — (Page 2 of 15)

**B. PROJECT SUMMARY**

*Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.*

| Building Components Complying via Performance | | | | | | Building Components Complying Prescriptively | |
|---|---|---|---|---|---|---|---|
| Envelope (See Table G) | Nonres / MultiFam | Performance / Not Included | Solar Thermal Water Heating (See Table I3) | ☐ Performance / ☒ Not Included | The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E). | |
| Mechanical (See Table H) | Nonres / MultiFam | Performance / Not Included | Covered Process: Commercial Kitchens (see Table J) | ☐ Performance / ☒ Not Included | Indoor Lighting (Unconditioned) 140.6 & 170.2(e) | NRCC-LTI-E is required |
| | | | | | Outdoor Lighting 140.7 & 170.2(e) | NRCC-LTO-E is required |
| Domestic Hot Water (See Table I) | Nonres / MultiFam | Performance / Not Included | Covered Process: Laboratory Exhaust (see Table J) | ☐ Performance / ☒ Not Included | Sign Lighting 140.8 & 170.2(e) | NRCC-LTS-E is required |
| | | | | | **Building Components Complying with Mandatory Measures** | |
| Lighting (Indoor Conditioned, see Table K) | Nonres / MultiFam | Performance / Not Included | Photovoltaics (see Table F) | ☐ Performance / ☒ Not Included | Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.) | |
| | | | | | Electrical Power Distribution 110.11 | NRCC-ELC-E is required |
| | | | Battery (see Table F) | ☐ Performance / ☒ Not Included | Commissioning 120.8 | NRCC-CXR-E is required |
| | | | | | Solar and Battery 110.10 | NRCC-SAB-E is required |



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — NRCC-PRF-E
**Nonresidential Performance Compliance Method** — (Page 3 of 15)

**C1. COMPLIANCE SUMMARY**

| | COMPLIES[3] | | |
|---|---|---|---|
| | Time Dependent Valuaton (TDV) | | Source Energy Use |
| | Efficiency[1] (kBtu/$ft^2$ - yr) | Total[2] (kBtu/$ft^2$ - yr) | Total[2] (kBtu/$ft^2$ - yr) |
| Standard Design | 246.27 | 246.27 | 19.05 |
| Proposed Design | 188.79 | 188.79 | 15.54 |
| **Compliance Margins** | **57.48** | **57.48** | **3.51** |
| | **Pass** | **Pass** | **Pass** |

*[1] Efficiency measures include improvements like a better building envelope and more efficient equipment*
*[2] Compliance Totals include efficiency, photovoltaics and batteries*
*[3] Building complies when efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded*



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — NRCC-PRF-E
**Nonresidential Performance Compliance Method** — (Page 4 of 15)

**C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/$ft^2$ - yr)**

| COMPLIES[2] | | | |
|---|---|---|---|
| Energy Component | Standard Design (TDV) | Proposed Design (TDV) | Compliance Margin (TDV)[1] |
| Space Heating | 3.37 | 6.5 | -3.13 |
| Space Cooling | 65.05 | 57.51 | 7.54 |
| Indoor Fans | 135.87 | 80.03 | 55.84 |
| Heat Rejection | 0 | 0 | 0 |
| Pumps & Misc. | 0 | 0 | 0 |
| Domestic Hot Water | 8.61 | 11.38 | -2.77 |
| Indoor Lighting | 33.37 | 33.37 | 0 |
| Flexibility | --- | --- | --- |
| **EFFICIENCY COMPLIANCE TOTAL** | **246.27** | **188.79** | **57.48 (23.3%)** |
| Photovoltaics | --- | --- | --- |
| Batteries | --- | --- | --- |
| **TOTAL COMPLIANCE** | **246.27** | **188.79** | **57.48 (23.3%)** |

*[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — NRCC-PRF-E
**Nonresidential Performance Compliance Method** — (Page 5 of 15)

**C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]**

| Non-Regulated Energy Component | Standard Design (TDV) | Proposed Design (TDV) | Compliance Margin (TDV)[1] |
|---|---|---|---|
| Receptacle | 102.01 | 102.01 | --- |
| Process | 186.36 | 186.36 | --- |
| Other Ltg | --- | --- | --- |
| Process Motors | --- | --- | --- |
| **TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)** | **534.64** | **477.16** | **57.48 (10.8%)** |

*[1] Notes: This table is not used for Energy Code Compliance.*



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — NRCC-PRF-E
**Nonresidential Performance Compliance Method** — (Page 6 of 15)

**C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/$ft^2$ /yr)**

| COMPLIES[2] | | | |
|---|---|---|---|
| Energy Component | Standard Design (SOURCE) | Proposed Design (SOURCE) | Compliance Margin (SOURCE)[1] |
| Space Heating | 0.48 | 2.13 | -1.65 |
| Space Cooling | 2.49 | 2.19 | 0.3 |
| Indoor Fans | 12.7 | 7.55 | 5.15 |
| Heat Rejection | 0 | 0 | 0 |
| Pumps & Misc. | 0 | 0 | 0 |
| Domestic Hot Water | 0.76 | 1.05 | -0.29 |
| Indoor Lighting | 2.62 | 2.62 | 0 |
| Flexibility | --- | --- | --- |
| **EFFICIENCY COMPLIANCE TOTAL** | **19.05** | **15.54** | **3.51 (18.4%)** |
| Photovoltaics | --- | --- | --- |
| Batteries | --- | --- | --- |
| **TOTAL COMPLIANCE** | **19.05** | **15.54** | **3.51 (18.4%)** |

*[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — NRCC-PRF-E
**Nonresidential Performance Compliance Method** — (Page 7 of 15)

**C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]**

| Non-Regulated Energy Component | Standard Design (SOURCE) | Proposed Design (SOURCE) | Compliance Margin (SOURCE)[1] |
|---|---|---|---|
| Receptacle | 7.55 | 7.55 | --- |
| Process | 16.22 | 16.22 | --- |
| Other Ltg | --- | --- | --- |
| Process Motors | --- | --- | --- |
| **TOTAL ( TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)** | **42.82** | **39.31** | **3.51 (8.2%)** |

*[1] Notes: This table is not used for Energy Code Compliance.*

**C6. 'ABOVE CODE' QUALIFICATIONS**

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — NRCC-PRF-E
**Nonresidential Performance Compliance Method** — (Page 8 of 15)

**C7. ENERGY USE SUMMARY**

| Energy Component | Standard Design Site (MWh) | Proposed Design Site (MWh) | Margin (MWh) | Standard Design Site (MBtu) | Proposed Design Site (MBtu) | Margin (MBtu) |
|---|---|---|---|---|---|---|
| Space Heating | 0.3 | --- | --- | --- | 8 | --- |
| Space Cooling | 5.8 | 4.9 | 0.9 | --- | --- | --- |
| Indoor Fans | 16.8 | 10 | 6.8 | --- | --- | --- |
| Heat Rejection | --- | --- | --- | --- | --- | --- |
| Pumps & Misc. | --- | --- | --- | --- | --- | --- |
| Domestic Hot Water | 1.2 | 1.5 | -0.3 | --- | --- | --- |
| Indoor Lighting | 4.8 | 4.8 | 0 | --- | --- | --- |
| Flexibility | --- | --- | --- | --- | --- | --- |
| **EFFICIENCY TOTAL** | **28.9** | **21.2** | **7.7** | **0** | **8** | **-8** |
| Photovoltaics | --- | --- | --- | --- | --- | --- |
| Batteries | --- | --- | --- | --- | --- | --- |
| **ENERGY USE SUBTOTAL** | **28.9** | **21.2** | **7.7** | **0** | **8** | **-8** |
| Receptacle | 15.1 | 15.1 | 0 | --- | --- | --- |
| Process | 25.6 | 25.6 | 0 | --- | --- | --- |
| Other Ltg | --- | --- | --- | --- | --- | --- |
| Process Motors | --- | --- | --- | --- | --- | --- |
| **ENERGY USE TOTAL** | **69.6** | **61.9** | **7.7** | **0** | **8** | **-8** |



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — NRCC-PRF-E
**Nonresidential Performance Compliance Method** — (Page 9 of 15)

**C8. ENERGY USE INTENSITY (EUI)**

| | Standard Design (kBtu/$ft^2$ / yr) | Proposed Design (kBtu/$ft^2$ / yr) | Margin (kBtu/$ft^2$ / yr) | Margin Percentage |
|---|---|---|---|---|
| GROSS EUI[1] | 67.54 | 62.34 | 5.2 | 7.7 |
| NET EUI[1] | 67.54 | 62.34 | 5.2 | 7.7 |

*[1] Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.*

**D1. EXCEPTIONAL CONDITIONS**

• The user model includes space(s) that are designed to be served by mechanical cooling systems, but the cooling systems were not included in the simulation model. A cooling system has been modeled for both the proposed and standard cases.
• The user model includes space(s) without sufficient cooling equipment. Cooling equipment has been added to the model to meet cooling loads.

**G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| **Opaque Surfaces & Orientation** | **Total Gross Surface Area ($ft^2$)** | **Total Fenestration Area ($ft^2$)** | **Window to Wall Ratio (%)** |
| North-Facing[1] | 1904 | 275 | 14.44 |
| East-Facing[2] | 0 | 0 | 0 |
| South-Facing[3] | 2006 | 0 | 0 |
| West-Facing[4] | 0 | 0 | 0 |
| **Total** | **3910** | **275** | **7.03** |
| Roof | 3516 | 0 | 0 |

*Notes*
*[1]North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW),*
*[2]East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE),*
*[3]South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE),*
*[4]West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),*



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — NRCC-PRF-E
**Nonresidential Performance Compliance Method** — (Page 10 of 15)

**G4. NONRESIDENTIAL AIR BARRIER**

| 01 | 02 |
|---|---|
| **Building Story Name** | **Air Barrier** |
| Com-Floor 1 | No air barrier |

**G5. OPAQUE SURFACE ASSEMBLY SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | | 07 | 08 | 09 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Continuous R-Value | | | | | |
| **Surface Name** | **Construction Type** | **Area ($ft^2$)** | **Framing Type** | **Cavity R-Value** | **Interior** | **Exterior** | **Units** | **Value** | **Description of Assembly Layers** | **Status[1]** |
| Slab On Grad8 | Underground Floor | 3,516 | N/A | 0 | N/A | N/A | F-factor | 0.73 | Slab Type =Unheated slab on grade<br>Insulation Orientation =None<br>Insulation R-Value =none | E |
| 6 Concrete Wall w/R-1310 | Exterior Wall | 3,910 | Wood | 13 | N/A | N/A | U-factor | 0.0975 | Concrete - 140 lb/ft3 - 6 in.<br>Composite-1<br>Gypsum Board - 5/8 in. | E |
| R-30 Roof No Attic14 | Roof | 3,516 | Wood | 30 | N/A | N/A | U-factor | 0.034 | AsphaltShingles0_25in<br>Vapor permeable felt - 1/8 in.<br>Plywood - 1/2 in.<br>Air - Cavity - Wall Roof Ceiling - 4 in. or more<br>Composite-2<br>Gypsum Board - 1/2 in. | E |

*[1] Status: N - New, A - Altered, E - Existing*



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INTERIORS BUILDING MEASUREMENT

U-HAUL TENANT IMPROVEMENT
4658 EVORA ROAD
CONCORD, CALIFORNIA 94520

HVAC TITLE 24. PLAN

| DATE | REMARKS |
|---|---|
| 05/17/2024 | PERMIT SUBMITTAL |

LICENSE #98122
1495 NICHOLS DRIVE
ROCKLIN, CA 95765
EMC INCORPORATED CONTRACTOR
MECHANICAL ENGINEER
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THESE DRAWINGS AND SPECIFICATION HAVE BEEN PREPARED BY E.M.C.I. FOR THE EXCLUSIVE DESIGN-BUILD USE IN ACCORDANCE WITH SECTION 6737.4 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE AND SHALL NOT BE USED BY ANOTHER CONTRACTOR

| | |
|---|---|
| R.S.J.: | Approver |
| DRAWN BY.: | R.S.J. |
| JOB NO.: | 24021 |

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**G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|---|---|---|---|---|---|---|---|---|
| Fenestration Assembly Name | Fenestration Type/ Product Type / Frame Type | Certification Method[1] | Assembly Method | Area ($ft^2$) | Overall U-factor | Overall SHGC | Overall VT | Status[2] |
| Solarban 70 XL | Vertical fenestration<br>Fixed window<br>N/A | NFRC | Manufactured | 275 | 0.28 | 0.4 | 0.63 | E |

*[1] Notes: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*
*[2] Status: N - New, A - Altered, E - Existing*

**H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Heating | | | | Cooling | | | | |
| Equipment Name | Equipment Type | Qty | Total Heating Output (kBtu/h) | Supp Heat Output (kBtu/h) | Efficiency Unit | Efficiency | Total Cooling Output (kBtu/h) | Efficiency Unit | Efficiency | Economizer Type (if present) | Status[1] |
| AC 1-3 | Single Zone Air Conditioner (SZAC) Air System | 3 | 52.6 | 0 | AFUE | 81 | 48.7 | EER SEER | 11.5 14 | Differential Enthalpy | N |

*[1] Status: N - New, A - Altered, E - Existing*





**H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Supply Fan | | | | Return / Relief Fan | | | | | |
| Name or Item Tag | Qty | Design OA CFM | CFM | Power | Power Units | Control | Fan Type | CFM | Power | Power Units | Control | Status[1] |
| AC 1-3 | 3 | 175.8 | 1,600 | 0.69 | BHP | Constant Vol | N/A | N/A | N/A | N/A | N/A | N |

*[1] Status: N - New, A - Altered, E - Existing*

**H8. SYSTEM SPECIAL FEATURES**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| System Name | Equipment Type | Interlocks per 140.4(n)[1] | Other Special Features and Controls |
| AC 1-3 | Single Zone Air Conditioner (SZAC) Air System | N/A | Differential Enthalpy |
| N/A1 - SHW | Service Hot Water | N/A | Fixed Temperature Control |

*Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.*
*[1] Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.*

**H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 |
|---|---|---|---|---|---|---|
| | Mechanical Ventilation | | | | | |
| Zone Name | Ventilation Function | # of People | Supply OA CFM | Exhaust CFM | Conditioned Area (sf) | DCV or Occupant Sensor Controls, or Both |
| 1-ZONE 1 | Office - Office space | 17.58 | 527.4 | 0 | 3516 | N/A |





**H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Rated Capacity (kBtuh) | | Airflow (cfm) | | | Fan | | | |
| System ID | System Type | Qty | Heating | Cooling | Design | Min. | Min. Ratio | Power | Power Units | Cycles | VSD |
| 1-ZONE 1-Trm | Uncontrolled | 3 | N/A | N/A | 4,800 | N/A | 0 | N/A | N/A | N/A | ☐ |

**I1. WATER HEATER EQUIPMENT SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Name | Heater Element Type | Tank Type | Qty | Tank Vol (gal) | Rated Input | Rated Input Unit | Efficiency | Efficiency Unit | Tank Insulation R-value Int/Ext | Standby Loss Fraction | 1st Hr. Rating or Flow Rate (gal) | Heat Pump Type | Tank Location or Ambient Condition |
| A O Smith ELJF-62 | Electricity | Storage | 1 | 6 | 1.5 | kW | 0.92 | EF | N/A | N/A | N/A | N/A | N/A |

**K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL**

**See NRCC-LTI-E for mandatory controls**

**L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

**Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online**

| Building Component | Form/Title |
|---|---|
| Envelope | NRCI-ENV-01-E - Must be submitted for all buildings |
| Envelope | NRCI-ENV-E - Envelope (for all buildings) |
| Mechanical | NRCI-MCH-01-E - Must be submitted for all buildings |
| Mechanical | NRCI-MCH-E - For all buildings with Mechanical Systems |
| Plumbing | NRCI-PLB-01-E - Must be submitted for all buildings |
| Plumbing | NRCI-PLB-E - For all buildings with Plumbing Systems |





**L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

**Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online**

| Building Component | Form/Title |
|---|---|
| Indoor Lighting | NRCI-LTI-E - Indoor Lighting (for all buildings) |

**M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

**Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).**

| Building Component | Form/Title |
|---|---|
| Envelope | NRCA-ENV-02-F - NRFC label verification for fenestration |
| Mechanical | NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap |
| Mechanical | NRCA-MCH-03-A - Constant Volume Single Zone HVAC |
| Mechanical | NRCA-MCH-05-A - Air Economizer Controls |

**N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**

**Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online**

**There are no Certificates of Verification applicable to this project**





**Documentation Author's Declaration Statement**

**1. I certify that this Certificate of Compliance documentation is accurate and complete.**

| | |
|---|---|
| Documentation Author Name: Rob Jensen | Documentation Author Signature: |
| Company: R & R ENTERPRISE | Signature Date: 05/04/2024 |
| Address: 1495 Nichols Drive | CEA/HERS Certification Identification (if applicable): |
| City/State/Zip: Rocklin, CA 95765 | Phone: 1-916-408-6600 |

**Responsible Person's Declaration statement**

**I certify the following under penalty of perjury, under the laws of the State of California:**

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.
6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

| | |
|---|---|
| Responsible Designer Name: | Responsible Designer Signature: |
| Company: WARE MALCOMB | |
| Address: 4683 CHABOT DRIVE SUITE # 300 | Date Signed: |
| City/State/Zip: PLEASANTON, CA 94588 | License #: |
| Phone: 1-925-244-9620 | Title: Scope: |
| Responsible Designer Name: Rob S Jensen | Responsible Designer Signature: |
| Company: Engineer Mechanical Contractor Inc | |
| Address: 1495 Nichols Drive | Date Signed: 05/04/2024 |
| City/State/Zip: Rocklin, CA 95765 | License #: 698122 |
| Phone: 1-916-408-6600 | Title: OWNER Scope: MECHANICAL |



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# U-HAUL TENANT IMPROVEMENT
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CONCORD, CALIFORNIA 94520

HVAC TITLE 24. PLAN

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| DRAWN BY.: | R.S.J. |
| JOB NO.: | 24021 |

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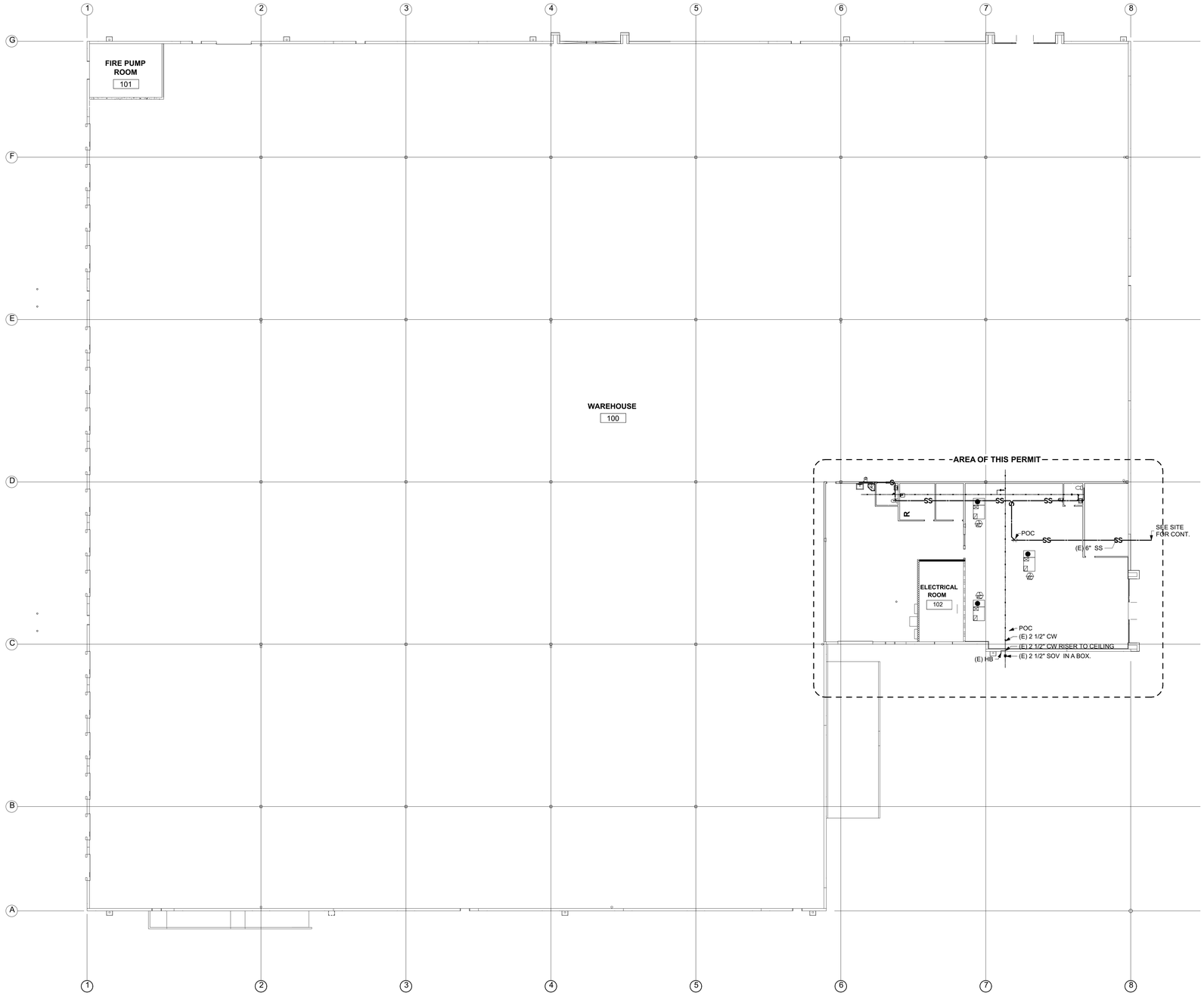


**OVERALL PLUMBING FLOOR PLAN** 1/16" = 1'-0"

## INDEX OF SHEETS


| | |
|---|---|
| P-1 | OVERALL PLUMBING PLAN |
| P-2 | ENLARGED PLUMBING PLAN |
| P-3 | ISOMETRICS |
| P-4 | DETAILS, NOTES , SCHEDULES |


## PLUMBING SYBOLS

- G — GAS METER
- VALVE (IN BOX)
- FS — FLOOR SINK
- FD — FLOOR DRAIN
- ROOF DRAIN & OVERFLOW
- POINT OF CONNECTION
- WALL C.O.
- FCO — FLOOR CLEAN OUT

## PLUMBING LINETYPES

- SS — 2" 3" VENT — SANITARY SEWER
- VENT
- 1/2" CW / 1/2" CW / 3/4" HW — COLD WATER SUPPLY w/SOV
- HOT WATER SUPPLY
- 3/4" HWR / 3/4" HWR — HOT WATER RETURN
- 3/4" THW / 3/4" THW — TEMPERED HOT WATER
- 1"G — GAS
- 3/4" C / 3/4" CONDENSATE TO MOP SINK BELOW — CONDENSATE LINE
- 1/2" AIR / 1/2" AIR — COMP.AIR LINE
- 1-1/2" VAC — VACUUM LINE
- GW — GREASE WASTE
- FILTERED WATER — FILTERED WATER

## *ABBREVIATIONS*

| | |
|---|---|
| AD | AR□A DRAIN |
| A□□ | ABO□□ □INISH □LOOR |
| B□□ | B□LO□ □INISH □LOOR |
| C | COND□NSAT□ |
| CO | CL□AN O□T |
| C□ | COLD □ AT□R |
| CP | COND□NSAT□ P□MP |
| D□ | DRIN□ING □O□NTAIN |
| DOM□ | DOM□STIC □ AT□R |
| D□ □ | DRAIN □ AST□ □□NT |
| □S | □M□RG□NCY SHO□ □R |
| □□ | □M□RG□NCY □Y□□ ASH |
| □CO | □LOOR CL□AN O□T |
| □D | □LOOR DRAIN |
| □□ | □INISH □LOOR |
| □S | □LOOR SIN□ |
| G | GAS |
| GCO | GRAD□ CL□AN O□T |
| G□ | GR□AS□ □ AST□ |
| H□ | HOT □ AT□R |
| HB | HOS□ BIB |
| IMA | IC□ MACHIN□ |
| IMB | IC□MA□□ R S□PPLY BO□ |
| IN□ | IN□□RT |
| I□ H | INSTANTAN□O□S □ AT□R H□AT□R |
| L□A□ | LA□ATORY |
| LS | LA□NDRY SIN□ |
| MS | MOP SIN□ |
| POC | POINT O□ CONN□CTION |
| P□T | PR□SS□R□ □ T□MP□RAT□R□ |
| RD□□ | ROO□ DRAIN □ D□□R□LO□ |
| RP | R□CIRC□LATING P□MP |
| RR | R□STROOM |
| S□S | SIN□ |
| SS | SANITARY S□□ □R |
| TH | T□B□ H□AT□RS |
| TP | TRAP PRIM□R |
| TS | TRAP S□AL |
| □□R | □RINAL |
| □S | □TILITY SIN□ |
| □ | □□NT |
| □TR | □□NT THR□ ROO□ |
| □ B | □ ASH BO□ |
| □ C | □ AT□R CLOS□T □TOIL□T□ |
| □ CO | □ ALL CL□AN O□T |
| □ □ | □ ASH □O□NTAIN □GANG□ |
| □ H | □ AT□R H□AT□R |
| □ S | □ ASH SIN□ |

## SCOPE OF WORK &CODES

***SCOPE***

*1. INSTALL NEW LAVS AND WATER CLOSETS AS SHOWN.*
*2. INSTALL NEW BREAKROOM SINK, MOP & LAUNDRY SINKS*
*3. INSTALL NEW TANK TYPE WATER HEATER.*
*4. INSTALL INSTANTANEOUS WATER HEATER*
*5. INSTALL NEW FLOOR DRAINS*
*5. CONNECT ALL TO EXISTING SIG SEWER AND WATER LINES AS SHOWN.*

***APPLICABLE CODES or REGULATION***

*A. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST CODES AND REGULATIONS OF THE FOLLOWING:*
*2022 CBC*
*2022 CPC*
*2022 CMC*
*2022 CALIFORNIA ENERGY CODE*
*B. RULINGS AND INTERPRETATIONS OF THE ENFORCING AGENCY WILL BE CONSIDERED PART OF THE REGULATIONS.*
*C. NOTHING IN THESE SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE ABOVE, AND EXPENSE IN COMPLIANCE WITH THE ABOVE SHALL BE BORNE BY THE CONTRACTOR.*
*D. WHENEVER THE SPECIFICATIONS AND DRAWINGS REQUIRE HIGHER STANDARDS OR LARGER SIZES THAN THOSE REQUIRED BY THE ORDINANCES AND STATUES, THE SPECIFICATIONS AND DRAWINGS SHALL TAKE PRIORITY OVER THE SPECIFIC ORDINANCES AND STATUTES.*


Matterhorn PLUMBING
8990 R□ncho Hill□ Dr.
Gilroy, CA 95020
Phone Number 408-839-3132
CSLB Licen□e Number □1049322

MATTERHORN PLUMBING
CLASSIFICATION C-36
LIC. NO. 1049322
This is a design-build project and the work shown on these plans has been designed and will be installed by Matterhorn Plumbing.



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ARCHITECTURE PLANNING INTERIORS
CIVIL ENGINEERING BRANDING BUILDING MEASUREMENT
4683 Chabot Dr. Suite #300
Pleasanton, CA 94588
P 925.244.9620


# U-HAUL TENANT IMPROVEMENT
4658 EVORA ROAD
CONCORD, CALIFORNIA 94520

**OVERALL PLUMBING PLAN**

| DATE | REMARKS |
|---|---|
| 05/17/2024 | PERMIT SUBMITTAL |

| | |
|---|---|
| PA/PM: | Approver |
| DRAWN BY.: | Author |
| JOB NO.: | SNR24-0001-00 |

SHEET
**P-1**


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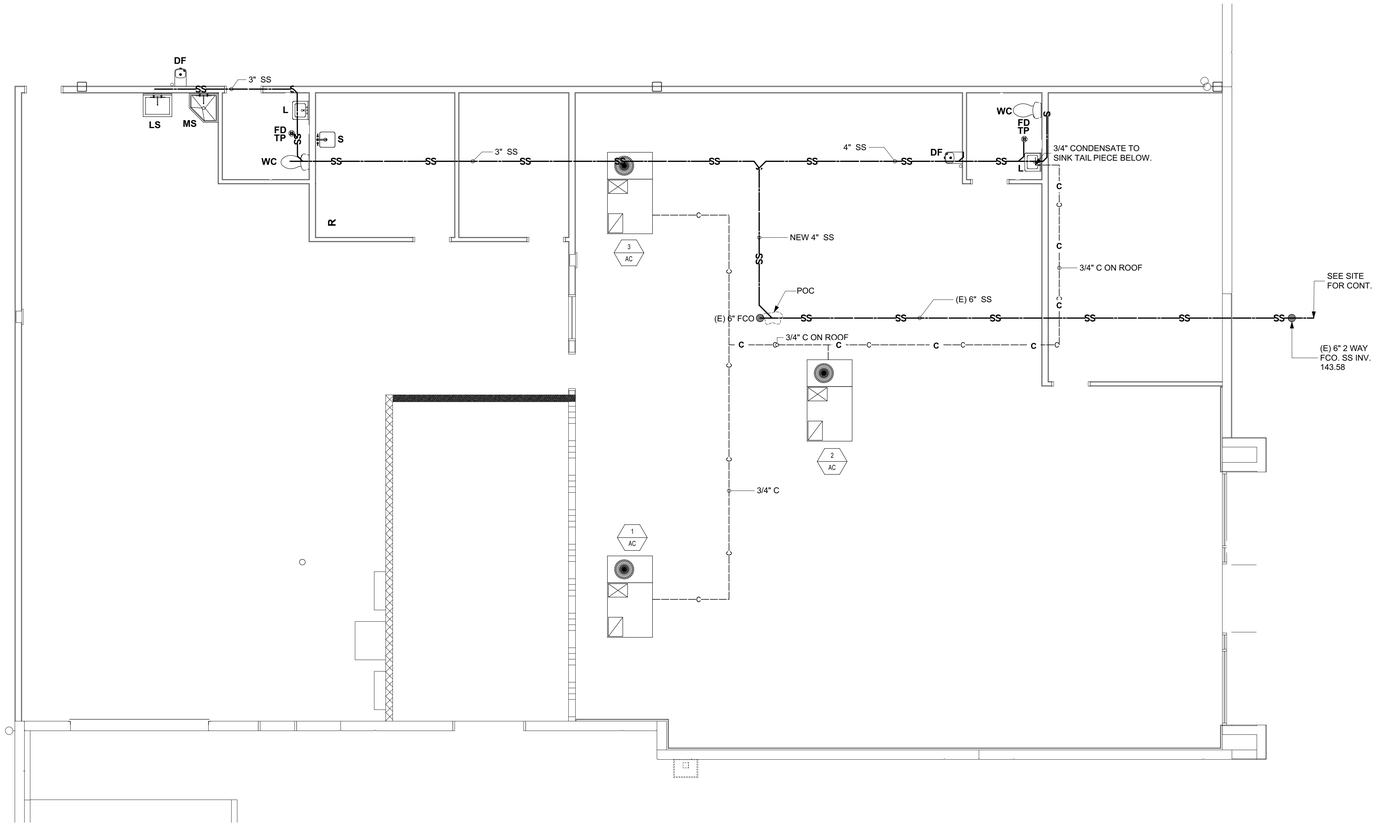
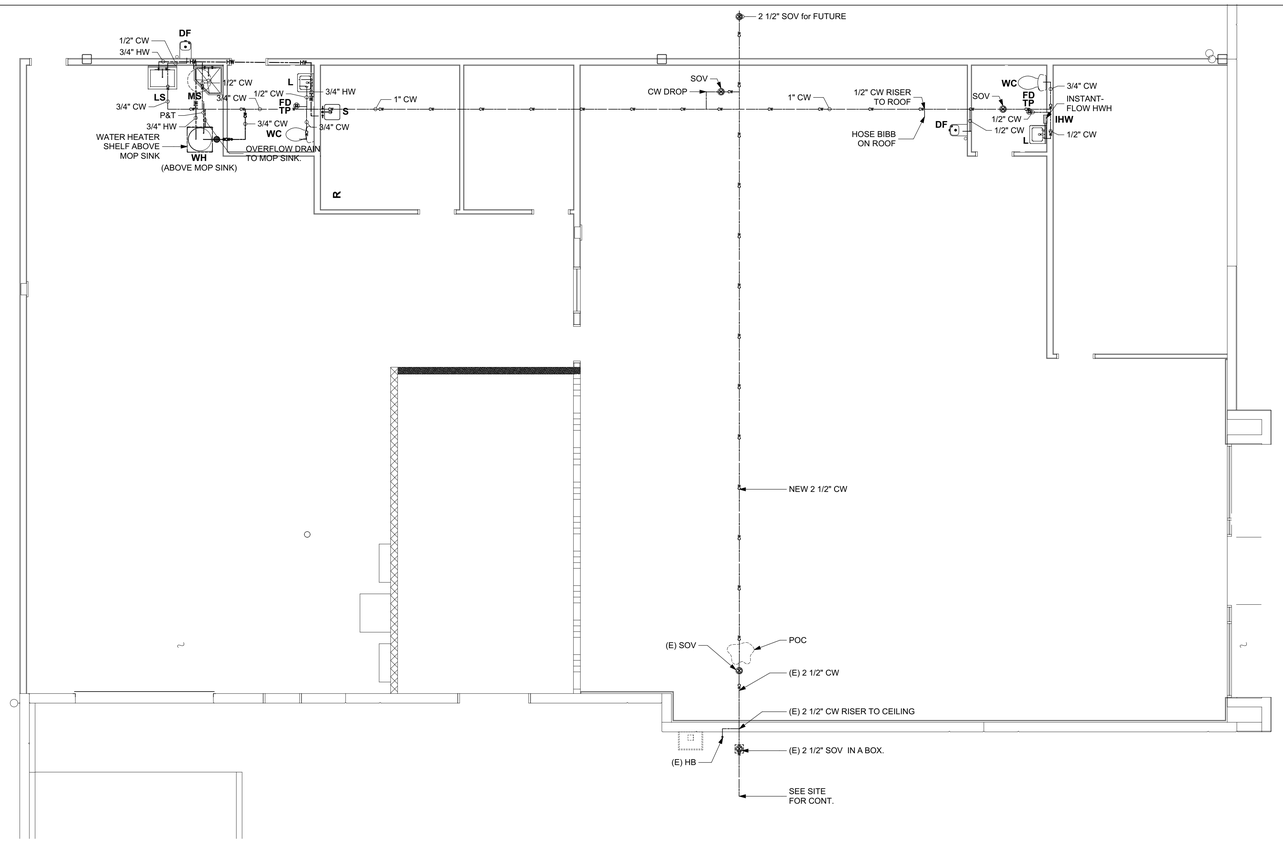



**ENLARGED DRAIN, WASTE & VENT PLAN** 3/16" = 1'-0"




**ENLARGED DOMESTIC WATER PLAN** 3/16" = 1'-0"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U-HAUL TENANT IMPROVEMENT
4658 EVORA ROAD
CONCORD, CALIFORNIA 94520

**ENLARGED PLUMBING PLAN**

| DATE | REMARKS |
|---|---|
| 05/17/2024 | PERMIT SUBMITTAL |

| | |
|---|---|
| PA/PM: | Approver |
| DRAWN BY.: | Author |
| JOB NO.: | SNR24-0001-00 |

SHEET
**P-2**


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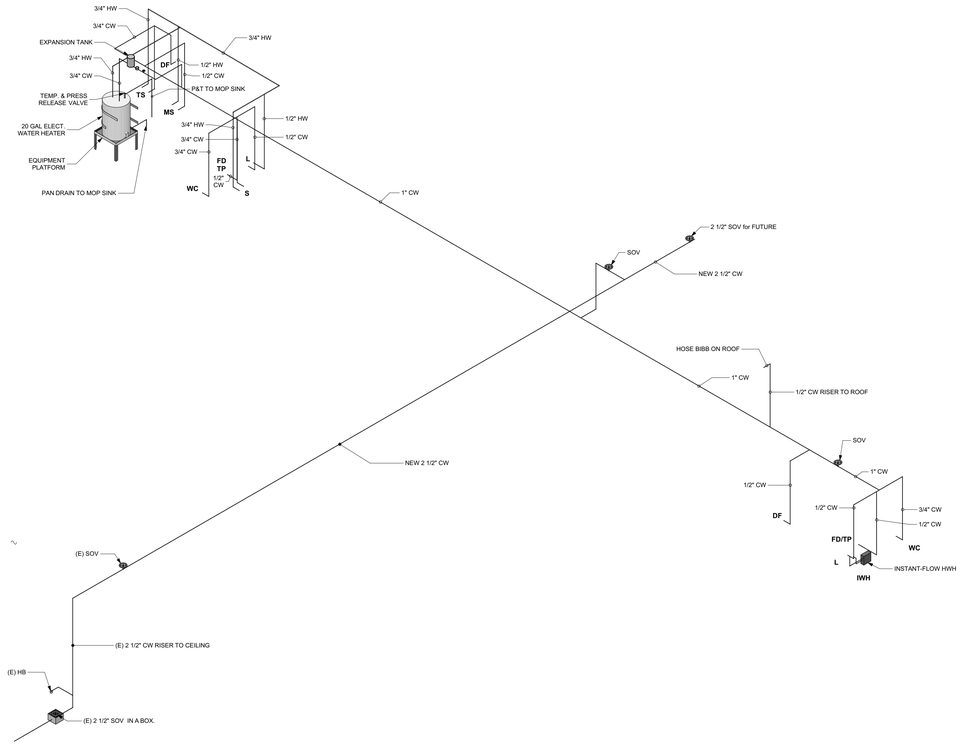
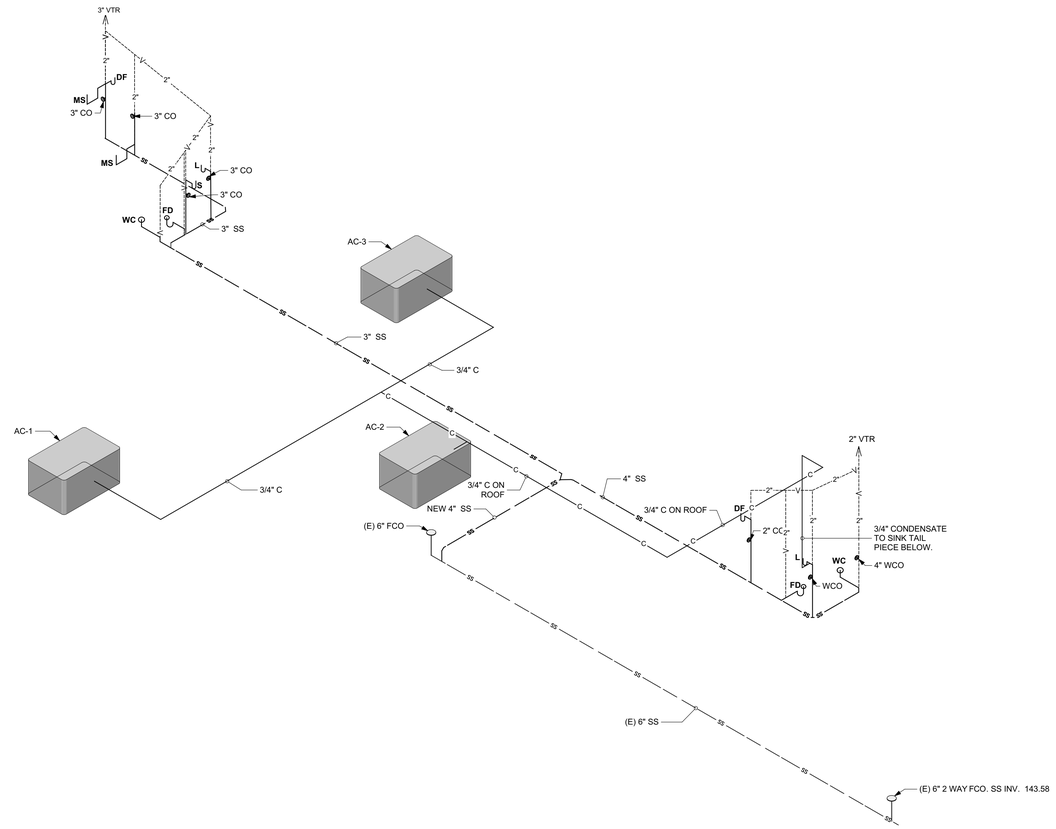



**DOMW ISOMETRIC**




**DWV ISOMETRIC**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# U-HAUL TENANT IMPROVEMENT
4658 EVORA ROAD
CONCORD, CALIFORNIA 94520

**ISOMETRICS**

| DATE | REMARKS |
|---|---|
| 05/17/2024 | PERMIT SUBMITTAL |

| | |
|---|---|
| **PA/PM:** | Approver |
| **DRAWN BY.:** | Author |
| **JOB NO.:** | SNR24-0001-00 |

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**P-3**

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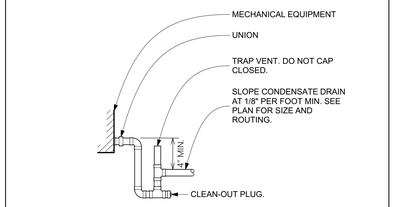
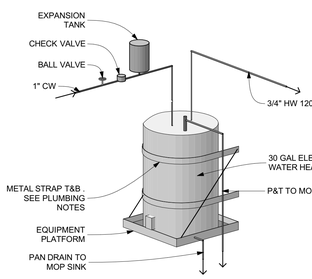



## CONDENSATE LINE

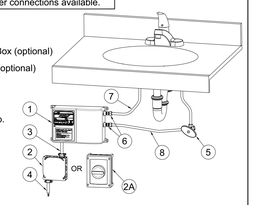
6




## WATER HEATER

5

Notes:
1. Heater to be installed below the level of all hot water outlets serviced by the heater.
2. Diagram shown with standard 3/8" Compression Fitting. Optional 1/2" Male NPT water connections available.

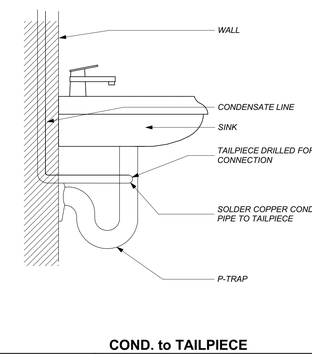


1. Instant-Flow SR Heater
2. Electrical Junction Supply Box (optional)
2A. 2095-1 Disconnect Switch (optional)
3. Electrical Supply Conduit
4. Electrical Supply Wire
5. Dual outlet Stop, 3/8" Comp. Outlet Connections
6. 3/8" Comp. x 1/4" NPT Fittings (supplied)
7. 3/8" Hot Water Outlet
8. 3/8" Cold Water Inlet

*NOTE: EXPOSED PIPES AND SURFACES, WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIESAND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIESAND SINKS.*

## INSTAHOT

4




## COND. to TAILPIECE

3

## CAL GREEN CODE

**5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS.** PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE FOLLOWING:

**5.303.3.1 WATER CLOSETS.** THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK-TYPE TOILETS.

**NOTE:** THE EFFECTIVE FLUSH VOLUME OF DUAL FLUSH TOILETS IS DEFINED AS THE COMPOSITE, AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH.

**5.303.3.2 URINALS.**

**5.303.3.2.1 WALL-MOUNTED URINALS.** THE EFFECTIVE FLUSH VOLUME OF WALL-MOUNTED URINALS SHALL NOT EXCEED 0.125 GALLONS PER FLUSH.

**5.303.3.2.2 FLOOR-MOUNTED URINALS.** THE EFFECTIVE FLUSH VOLUME OF FLOOR-MOUNTED OR OTHER URINALS SHALL NOT EXCEED 0.5 GALLONS PER FLUSH.

**5.303.3.3 SHOWERHEADS. [BSC-CG]**

**5.303.3.3.1 SINGLE SHOWERHEAD.** SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 80 PSI. SHOWERHEADS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR SHOWERHEADS.

**5.303.3.3.2 MULTIPLE SHOWERHEADS SERVING ONE SHOWER.** WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL THE SHOWERHEADS AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 80 PSI, OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME.

**NOTE:** A HAND-HELD SHOWER SHALL BE CONSIDERED A SHOWERHEAD.

**5.303.3.4 FAUCETS AND FOUNTAINS.**

**5.303.3.4.1 NONRESIDENTIAL LAVATORYFAUCETS.** LAVATORY FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 0.5 GALLONS PER MINUTE AT 60 PSI.

**5.303.3.4.2 KITCHEN FAUCETS.** KITCHEN FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI.

**5.303.3.4.3 WASH FOUNTAINS.** WASH FOUNTAINS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN1.8 GALLONS PER MINUTE/20 [RIM SPACE (INCHES) AT 60 PSI].

**5.303.3.4.4 METERING FAUCETS.** METERING FAUCETS SHALL NOT DELIVER MORE THAN 0.20 GALLONS PER CYCLE.

**5.303.3.4.5 METERING FAUCETS FOR WASH FOUNTAINS.** METERING FAUCETS FOR WASH FOUNTAINS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 0.20 GALLONS PER MINUTE/20 [RIM SPACE (INCHES) AT 60 PSI].

**NOTE:** WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION.

CAL GREEN 2022 TABLE 5.504.4.2
SEALANT VOC LIMIT LESS WATER AND LESS EXEMPT COMPOUNDS IN GRAMS PER LITER

| NA |
|---|

CAL GREEN 2022 TABLE 5.303.6
STANDARDS FOR PLUMBING FIXTURES AND FIXTURE FITTING

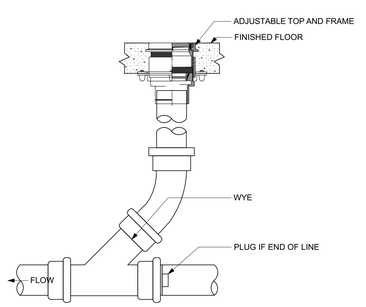
| 5.303.6 Plumbing fixtures and fittings shall be installed in accordancewith the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 of the California Plumbing Code and in Chapter 6 of this code. | |
|---|---|
| WATER CLOSET (TOILETS) - FLUSHOMETER VALVE TYPE SINGLE FLUSH, MAX FLUSH VOLUME | ASME A 112.19.2/ CSA B45.1-1.28 gal (4.8 L) |
| WATER CLOSETS (TOILETS) - FLUSHOMETER VALVE TYPE DUAL FLUSH, MAXIMUM FLUSH VOLUME | ASME A 112.19.14 AND USEPA EFFICIENCY TOILET SPECIFICATION-1.28 gal(4.8L) |
| WATER CLOSETS (TOILETS) - TANK TYPE | U.S. EPA WATER SENSE TANK-TYPE HIGH-EFFICIENCY TOILET SPECIFICATION |
| URINALS, MAXIMUM FLUSH VOLUME | ASME A 112.19.2/CSA B45.1-0.5 gal(1.9L) |
| URINALS, NONWATER URINALS | ASME A 112.19.19 (VITREOUS CHINA)ANSI Z124.9-2004 OR IAPMO Z124.9 (PLASTIC) |
| PUBLIC LAVATORY FAUCETS: MAXIMUM FLOW RATE - 0.5 gpm (1.9 L/MIN) | ASME A 112.18.1/CSA B125.1 |
| PUBLIC METERING SELF-CLOSING FAUCETS: MAXIMUM WATER USE -0.25 GAL (1.0 L) PER METERING CYCLE | ASME A 112.18.1/CSA B125.1 |
| RESIDENTIAL BATHROOM LAVATORY SINK FAUCET: MAXIMUM FLOW RATE - 1.5 gpm (5.7 L/MIN) | ASME A 112.18.1/CSA B125.1 |

TABLE 5.504.4.1 ADHESIVE VOC LIMIT
Less Water and Less Exempt Compounds in Grams Per Liter

| ARCHITECTURAL APPLICATIONS | CURRENT VOC LIMIT |
|---|---|
| NA | |
| SPECIALTY APPLICATIONS | |
| PVC welding | 510 |
| CPVC welding | 490 |
| ABS welding | 325 |
| Plastic cement welding | 250 |
| Adhesive primer for plastic | 550 |
| Contact adhesive | 80 |
| Special purpose contact adhesive | 250 |
| Structural wood member adhesive | 140 |
| Top and trim adhesive | 250 |
| SUBSTRATE SPECIFIC APPLICATIONS | |
| NA | |

*TABLE 5.504.4.1*
*ADHESIVE VOC LIMIT*
*LESS WATER AND LESS EXEMPT COMPOUNDS IN GRAMS PER LITER*

| *ARCHITECTURAL APPLICATIONS* | *CUR VOC LIMIT* |
|---|---|
| N/A | |
| *SPECIALTY APPLICATIONS* | |
| *PVC WELDING* | *510* |
| *CPVC WELDING* | *490* |
| *ABS WELDING* | *325* |
| *PLASTIC CEMENT WELDING* | *250* |
| *ADHESIVE PRIMER FOR PLASTIC* | *550* |
| *CONTACT ADHESIVE* | *80* |
| *SPECIAL PURPOSE CONTACT ADHESIVE* | *250* |
| *STRUCTURAL WOOD MEMBER ADHESIVE* | *140* |
| *TOP AND TRIM ADHESIVE* | *250* |
| *SUBSTRATE SPECIFIC APPS* | |
| *N/A* | |




## CLEAN OUT TO GRADE

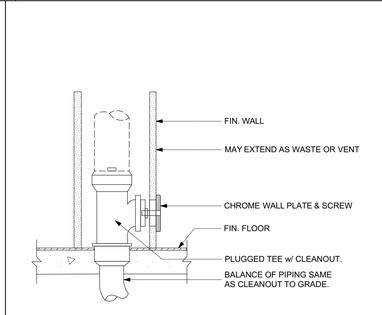
2

## PLUMBING NOTES

1. *ALL WORK TO BE PERFORMED UNDER 2022 C.P.C.*
2. *SANITARY SEWER (SS)- TO BE PVC. VENTS (V) TO BE PVC.*
3. *GAS LINES (G) TO BE SCHED 40 STEEL. CONDENSATE & PRESSURE RELIEF LINES (C) TO BE M COPPER. AIR LINES (A)TO BE COPPER (SILVER SOLDERED OR BRAZED FITTINGS), VACUUM LINES (VAC) TO BE PVC SCHED 40.*
4. *DOMESTIC WATER (CW & HW) FOR 1-1/4", 1-1/2", 2" TO BE M COPPER & FOR 1/2", 3/4" & 1" TO BE PVC.*
5. *REFER TO APPROVED SITE PLAN FOR PLUMBING CONDITIONS & CONTINUATIONS.*
6. *CLEAN OUTS TO BE PLACED EVERY 100' (MAX.).*
7. *CLEAN OUTS ARE REQ. ON ALL HORIZ. WASTE LINES OVER 5' FROM MAIN AND ON ALL HORIZ. SINK AND URINAL WASTE LINES.*
8. *HOT WATER DELIVERED FROM PUBLIC-USE LAVATORIES SHALL BE LIMITED TO A MAXIMUM TEMPERATURE OF 120°F (49°C)) PROVIDE A TEMP. MIXING VALVE OR LAVATORYFAUCET THAT COMPLIES WITH ASSE 1070/ ASME A112.1070/CSA B125.70 AND IS CAPABLE OF BEING ADJUSTED FOR THE MAX. TEMP. SETTING. THE WATER HEATER THERMOSTAT SHALL NOT BE CONSIDERED A CONTROL FOR MEETING THIS PROVISION.*
9. *INSTALLATION TO BE FIELD TESTED & INSPECTED.*
10. *LAVISINK FAUCETS USE NO MORE THAN 0.5 GPM, PER CAL GREEN 2022*
11. *THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS (4.8 L) PER FLUSH. THE EFFECTIVE FLUSH VOLUME OF WALL-MOUNTED URINALS SHALL NOT EXCEED 0.125 GALLONS PER FLUSH.*
12. *ALL FAUCETS TO BE LEVER TYPE / SHALL HAVE AN OPERATING FORCE OF NO GREATER THAN 5 LBS.*
13. *FLUSH HANDLES OF ACCESSIBLE WATER CLOSETS ARE TO BE ON THE WIDE SIDE OF THE TOILET.*
14. *ALL WATER CLOSETS TO BE ELONGATED BOWL W/ OPEN FRONT TOILET SEAT, NONABSORBENT, UNLESS NOTED OTHERWISE.*
15. *ALL PLUMBING VENT PENETRATIONS TO BE A MINIMUM OF 10' FROM ANY FRESH AIR INTAKE.*
16. *WATER HAMMER ARRESTERS SHALL BE INSTALLED AT CLOTHES WASHERS*
17. *ALL PLUMBING MATERIALS SHALL BE LISTED PER CPC SECTION 301.2*
18. *TEMPERATURE/PRESSURE RELIEF VALVES AS PER CPC SECTION 608.3 - 608.5*
19. *FLOOR DRAINS DIRECTLY CONNECTED TO THE DRAINAGE SYSTEM AND SUBJECT TO INFREQUENT USE SHALL BE PROTECTED WITH A TRAP SEAL PRIMER, EXCEPT WHERE NOT DEEMED NECESSARY FOR SAFETY OR SANITATION BY THE AUTHORITY HAVING JURISDICTION. TRAP SEAL PRIMER VALVES SHALL COMPLY WITH ASSE 1018. DRAINAGE AND ELECTRONIC DESIGN TYPE TRAP SEAL PRIMER DEVICES SHALL COMPLY WITH ASSE 1044. (CPC SECTION 1007)*
20. *LAVATORYDEVICES SHALL HAVE A LIMITED FLOW OF HOT WATER OF 1.5 GPM MAX.*
21. *HORIZ. DRAINAGE PIPING IS TO SLOPE A MINIMUM OF 1/4" PER FOOT AS PER CPC SECTON 708.1.*
22. *ALL DRAIN WASTE VENTING TO BE IN A VERTICAL ORIENTATION.*
23a. *EACH VENT PIPE OR STACK SHALL EXTEND THROUGH IT FLASHING AND SHALL TERMINATE VERTICALLY NOT LESS THAN 6 INCHES (152 ROM) ABOVE THE ROOF NOR LESS THAN 1 FOOT (305 MM) FROM A VERTICAL SURFACE. EACH VENT SHALL TERMINATE NOT IESS THAN 10 FEET (3048 MM) FROM, OR NOT LESS THAN 3 FEET ABOVE, AN OPENABLE WINDOW, DOOR, OPENING, AIR INTAKE, OR VENT SHAFT. OR NOT LESS THAN 3 FEET IN EVERY DIRECTION FROM A LOT LINE, ALLEY AND STREET EXCEPTED.*
23b. *HORIZONTAL VENTS LENGHT RUNS SHALL NOT EXCEED ONE THIRD (1/3) THE TOTAL PERMITTED LENGTH OF ANY VENT TO BE INSTALLED IN A HORIZONTAL POSITION. WHEN VENTS ARE INCREASED ONE (1) PIPE SIZE FOR THEIR ENTIRE LENGTH, THE MAXIMUM LENGTH LIMITATIONS DO NOT APPLY. CPC SECTION 904.4 & TABLE 703 NOTE #5. 1-1/2" VENT - 20 FEET HORIZ. MAX., 2" VENT - 40 FEET HORIZ. MAX., 3" VENT - 70 FEET 8 INCHES HORIZ. MAX.*
24. *MAXIMUM HORIZONTAL LENGTH OF TRAP ARMS: (2022 CPC TABLE 1002.2) 1½" @ 42", 2" @ 60", 3" @ 72", 4" @ 120"*
25. *ALL EXPOSED HOT WATER AND DRAIN PIPES UNDER LAVS AND SINKS TO BE INSULATED.*
26. *AN ATTIC OR UNDERFLOOR SPACE IN WHICH AN APPLIANCE IS INSTALLED SHALL BE ACCESSIBLE THROUGH AN OPENING AND PASSAGEWAY AT LEAST AS LARGE AS THE LARGEST COMPONENT OF THE APPLIANCE, AND NOT LESS THAN 22"X30". WHERE THE HEIGHT OF THE PASSAGEWAY IS LESS THAN 6' THE DISTANCE FROM THE PASSAGEWAYACCESS TO THE APPLIANCE SHALL NOT EXCEED 20' MEASURED ALONG THE CENTERLINE OF THE PASSAGEWAY. A 30"X30" WORKING SHALL BE PROVIDED IN FROM THE ACCESS TO THE PLATFORM. A PERMANENT 20VOLT RECEPTACLE OUTLET AND A LIGHTING FIXTURE SHALL BE INSTALLED NEAR THE APPLIANCE. THE SWITCH CONTROLLING THE LIGHTING FIXTURE SHALL BE LOCATED AT THE ENTRANCE TO THE PASSAGEWAY. (CPC 509.4 & CMC 904.11)*
27. *WATER HEATERS LOCATED IN THE ATTIC OR ON A SUBFLOOR NEED A WATER-TIGHT DRIP PAN WITH A ¾" DRAIN TO THE EXTERIOR OF THE BUILDING. (CPC 508.4)*
28. *ALL WATERSENSE NEED TO BE STRAPPED TO THE BUILDING WITH AT LEAST TWO STRAPS TO PREVENT SEISMIC MOVEMENT. ONE STRAP WITHIN THE TOP THIRD AND THE OTHER WITHIN THE BOTTOM THIRD OF THE WATER HEATER. THE LOWER STRAP SHALL NOT BE WITHIN 4" OF THE CONTROLS. (CPC 508.2)*
29. *ALL STORAGE TYPE WATER HEATERS NEED A TEMPERATURE/PRESSURE RELIEF VALVE WITH A ¾" HARD PIPE DRAIN WHICH TERMINATES 6" TO 24" ABOVE GRADE AND POINTING DOWNWARD. THE DRAIN PIPE SHALL MAINTAIN A DOWNWARD SLOPE TO THE EXTERIOR. (CPC 505.4, 505.5.5, 608.5)*
30. *THE WATER SUPPLY CONNECTION TO A COMMERCIAL DISH WASHING MACHINE SHALL BE PROTECTED BY AN AIR GAP OR A BACK FLOW PREVENTION DEVICE IN ACCORDANCE WITH SECTION 603.3.2, SECTION 603.3.5, SECTION 603.3.6. OR ASSE 1004. (CPC 414.2.)*
31. *NO DOMESTIC DISHWASHING MACHINE SHALL BE DIRECTLY CONNECTED TO A DRAINAGE SYSTEM OR FOOD WASTE DISPOSER WITHOUT THE USE OF AN APPROVED DISHWASHER AIR GAP FITTING ON THE DISCHARGE SIDE OFTHE DISHWASHING MACHINE. LISTED AIR GAPS SHALL BE INSTALLED WITH THE FLOOD-LEVEL (FL) MARKING AT OR ABOVE THE FLOOD LEVEL OF THE SINK OR DRAINBOARD, WHICHEVER IS HIGHER. (CPC 807.2)*
32. *A CONTROL VALVE SHALL BE INSTALLED IMMEDIATELY AHEAD OF EACH WATER-SUPPLIED APPLIANCE AND IMMEDIATELY AHEAD OF EACH SLIP JOINT OR APPLIANCE SUPPLY. PARALLEL WATER DISTRIBUTION SYSTEMS SHALL PROVIDE A CONTROL VALVE EITHER IMMEDIATELY AHEAD OF EACH FIXTURE BEING SUPPLIED OR INSTALLED AT THE MANIFOLD. AND SHALL BE IDENTIFIED WITH THE FIXTURE BEING SUPPLIED. WHERE PARALLEL WATER DISTRIBUTION SYSTEM MANIFOLDS ARE LOCATED IN ATTICS, CRAWL SPACES,OR OTHER LOCATIONS NOT READILY ACCESSIBLE, A SEPARATE SHUTOFF VALVE SHALL BE REQUIRED IMMEDIATELY AHEAD OF EACH INDIVIDUAL FIXTURE OR APPLIANCE SERVED.*
33. *PLUMBING SYSTEMS SHALL BE LOCATED ABOVE THE ELEVATION IN ACCORDANCE WITH THE BUILDING CODE FOR UTILITIES AND ATTENDANT EQUIPMENT OR THE ELEVATION OF THE LOWEST FLOOR, WHICHEVER IS HIGHER IN FLOOD HAZARD AREAS.*
34. *THE MAXIMUM ALLOWABLE LEAD CONTENT IN PIPES, PIPE FITTINGS, PLUMBING FITTINGS, AND FIXTURES INTENDED TO CONVEY OR DISPENSE WATER FOR HUMAN CONSUMPTION SHALL BE NOT MORE THAN A WEIGHTED AVERAGE OF 0.25 PERCENT WITH RESPECT TO THE WETTED SURFACES OF PIPES, PIPE FITTINGS, PLUMBING FITTINGS, AND FIXTURES. FOR SOLDER AND FLUX, THE LEAD CONTENT SHALL BE NOT MORE THAN 0.2 PERCENT WHERE USED IN PIP-ING SYSTEMS THAT CONVEY OR DISPENSE WATER FOR HUMAN CONSUMPTION.*
35. *ALL PIPING INSULATION SHALL MEET A MAXIMUM OF 25 FLAMES SPREAD AND 50 SMOKE DENSITY RATING. ALL DOMESTIC HOT WATER SYSTEM PIPING CONDITIONS LISTED BELOW, WHETHER BURIED OR UNBURIED, MUST BE INSULATED AND THE INSULATION THICKNESS SHALL BE SELECTED BASED ON THE CONDUCTIVITY RANGE IN TABLE 120.3A. THE INSULATION LEVEL SHALL BE SELECTED FROM THE FLUID TEMPERATURE RANGE BASED ON THE THICKNESS REQUIREMENTS TABLE 120.3A. THE FIRST 5 FEET OF HOT AND COLD-WATER PIPES FROM THE STORAGE TANK SHALL BE INSULATED. ALL PIPING ASSOCIATED WITH A DOMESTIC HOT WATER RECIRCULATION SYSTEM REGARDLESS OF THE PIPE DIAMETER SHALL BE INSULATED.*
36. *INDIRECT WASTE PIPING SHALL DISCHARGE INTO THE BUILDING DRAINAGE SYSTEM THROUGH AN AIR GAP OR AIR BREAK . WHERE A DRAINAGE AIR GAP IS REQUIRED BY CODE THE MINIMUM VERTICAL DISTANCE AS MEASURED FROM THE LOWEST POINT OF THE INDIRECT WASTE PIPE OR THE FIXTURE OUTLET TO THE FLOOD-LEVEL RIM OF THE RECEPTOR SHALL BE NOT LESS THAN I INCH. (CPC 801.3)*
37. *SUBSOIL DRAINS SUBJECT TO BACKFLOW WHERE DISCHARGING INTO A STORM DRAIN SHALL BE PROVIDED WITH A BACKWATER VALVE IN THE DRAIN LINE SO LOCATED AS TO BE ACCESSIBLE FOR INSPECTION AND MAINTENANCE. (CPC 1101.6.4)*
38. *RAIN LEADERS AND CONDUCTORS CONNECTED TO A BUILDING STORM SEWER SHALL HAVE A CLEANOUT INSTALLED AT THE BASE OF THE OUTSIDE LEADER OR OUTSIDE CONDUCTOR BEFORE IT CONNECTS TO THE HORIZONTAL DRAIN. (CPC 1101.13.1)*
39. *THE CONNECTION BETWEEN THE ROOF AND ROOF DRAINS THAT PASS THROUGH THE ROOF AND INTO THE INTERIOR OF THE BUILDING SHALL BE MADE WATERTIGHT BY THE USE OF PROPER FLASHING MATERIAL. (CPC 1102.3)*
40. *DOMESTIC HOT WATER PIPING SHALL BE INSULATED. HOT WATER PIPE INSULATION SHALL HAVE A MINIMUM WALL THICKNESS OF NOT LESS THAN THE DIAMETER OF THE PIPE FOR A PIPE UP TO 2 INCHES (50 MM) IN DIAMETER. INSULATION WALL THICKNESS SHALL BE NOT LESS THAN 2 INCHES (51 MM) FOR A PIPE OF 2 INCHES (50 MM) OR MORE IN DIAMETER. (CPC 609.11)*

TABLE 703.2
MAXIMUM UNIT LOADING AND MAXIMUM LENGTH OF DRAINAGE AND VENT PIPING

| SIZE OF PIPE (inches) | 1¼ | 1½ | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Maximum Units** | | | | | | | | | | |
| Drainage Piping[1] Vertical | 1 | 2[2] | 16[3] | 48[4] | 256 | 600 | 1380 | 3600 | 5600 | 8400 |
| Horizontal | 1 | 1 | 8[3] | 35[4] | 216[3] | 429[3] | 720[3] | 2640[3] | 4680[3] | 8200[3] |
| **Maximum Length** | | | | | | | | | | |
| Drainage Piping Vertical, (feet) | 45 | 65 | 85 | 212 | 300 | 390 | 510 | 750 | -- | -- |
| Horizontal (unlimited) | | | | | | | | | | |
| **Vent Piping** | | | | | | | | | | |
| Horizontal and Vertical[4] Maximum Units | 1 | 8[3] | 24 | 84 | 256 | 600 | 1380 | 3600 | -- | -- |
| Maximum Lengths, (feet) | 45 | 60 | 120 | 212 | 300 | 390 | 510 | 750 | | |




## WALL CLEANOUT

1

**PLUMBING FIXTURE SCHEDULE** — JOB: UHAUL

| MARK | TYPE | MANUFACTURER | PART NO. | DESCRIPTION | QTY | CONNECTION SIZES | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | TRAP | W | V | CW | HW | |
| WC | □ AT□R CLOS□T | PRO□LO | P□1603PA□ H P□1612PA□ H | Hi□h-□□iciency Toilet Pre□ure Assist – 1.0 gpf | 2 | | | | | | ADA COMPLIANT 1 RIGHT HAND □ 1 L□□T HAND □L□SH L□□□R |
| | S□AT | PRO□LO | P□TSCO□2000□ H | □lon□□ed commerci□l toilet □e□t, □hite | | | | | | | |
| | □ A□RING | PRO□LO | P□□ R□ H□ B | He□y Duty □ □□Bo□l Rin□ □ith Horn □nd Bolt □t | | | | | | | |
| L | LA□ATORY | PRO□LO | P□5514□ H | 20" x 18" Wall hung lavatory | 2 | | | | | | ADA COMPLIANT |
| | □A□C□T | D□LTA | 501L□HGMHD□ | BATHROOM □A□C□T SINGL□ HANDL□M□□ lo□r□te 1-2 □□m □ 60 □□, 4.5 L/min □ 414 □P□ | | | | | | | ADA COMPLIANT |
| | DRAIN | PRO□LO | P□GD100 | L□□tory Grid Dr□in | | | | | | | |
| | TRAP CO□□R | PRO□LO | P□202□ H | one P•r□□oe□r, t□•□n□te □□□e□n□ □nd □u□□y oe□r□ | | | | | | | |
| S | SIN□ | PRO□LO | P□SR2521553C | St□inle□□ Steel Sin□□ Be□leton Serie□ 25" □21" 3H 5-3/8" OS 1B SS SIN□ | 1 | | | | | | |
| | □A□C□T | PRO□LO | P□□C5157CP | SINGL□ HANDL□ P□LL•O□T □□TCH□N □A□C□T - CHROM□ | | | | | | | ADA COMPLIANT |
| | STRAIN□R | PRO□LO | P□646443 | B□□et Str□iner□ □□□y Mount | | | | | | | |
| DF | DRIN□ING □O□NTAIN | □L□AY | L□STL8□ SLP | □□H2O□□ Bottle □iller St□tion □ith Bed B•Le□el L□oler Mode□ □nh□nced L□STL8□ SSP □ L□STL8□ SLP | 2 | | | | | | ADA COMPLIANT 115□80 H□ |
| MS | MOP SIN□ | PRO□LO | P□MB2424S | Mo□B□□in 24" □24" Mo□□er□Ice b□□n □ith □□nle□□□eel dr□in | 1 | | | | | | |
| | □A□C□T | PRO□LO | P□1119 | T□ O-HANDL□ □ ALL MO□NT S□R□IC□ SIN□ □A□C□T | | | | | | | ADA COMPLIANT |
| WH | □ AT□R H□AT□R | BRAD□ORD □ HIT□ | L□120□3-1 | ElectriFLEX LD™ (Light Duty) Commerci□l □tility □lectric □□ter He□ter 19 GAL | 1 | | | | | | 1500□ |
| | STAND | HOLDRIT□ | □30-S□ HP-□ M | □ □ll Mounted □□ul□ment Pl□torm | | | | | | | |
| IWH | INSTANT □ AT□R H□AT□R | CHRONOMIT□ | SR-30□208 | □L□CTRIC TAN□L□SS □ AT□R H□AT□R - POINT O□ □S□ | 1 | | | | | | 30A□208□ |
| FD | □LOOR DRAIN | □□RN | □□1-P□3-R6 | 6" To□ A□□embly Ad□u□ble □loor Dr□in □ith □□1TM Technolo□y | 2 | | | | | | Nic□el Bron□e Round |
| TP | TRAP PRIM□R | PRO□LO | P□TPR500 | Tr□□ Primer □□1□e | 2 | | | | | | |
| | ACC□SS DOOR | PRO□LO | P□1010SSAD | □NI□□RSAL ACC□SS DOOR 10 □ 10 Acce□□ Door - St□inle□□Steel | | | | | | | |
| LS | LA□NDRY SIN□ | PRO□LO | P□LT2123 | □oor Mounted Multi-Pur□o□e Sin□le B□□n L□undry Sin□□ | 1 | | | | | | |
| | □A□C□T | PRO□LO | P□□□4085 | T□ O HANDL□ COMM□RCIAL □ ID□SPR□AD □A□C□T | | | | | | | ADA COMPLIANT □lo□ r□e□0.5 GPM □er□or |
| | □SC□TCH□ON | PRO□LO | P□□7 | 5/8" OD CP □SC□TCH□ON Chrome Pl□ted | | | | | | | |
| | □AL□□ | PRO□LO | P□□AC32C | Le□d-□ree Multi-Turn Sto□□ L□ 5/8 OD □ 3/8 OD COMP ANG ST CP | | | | | | | |
| | HOS□ | PRO□LO | P□□146 | St□inle□□Steel □nd P□C Toilet Rein□orced □le□ible Connector□ | | | | | | | |
| | P-TRAP | PRO□LO | P□PTB107 | Ad□u□tible Tubul□r P-Tr□□□ 1-1 2 □ 1-1 2 | | | | | | | |


WARE MALCOMB
ARCHITECTURE PLANNING INTERIORS
CIVIL ENGINEERING BRANDING BUILDING MEASUREMENT
4683 Chabot Dr. Suite #300
Pleasanton, CA 94588
P 925.244.9620


# U-HAUL TENANT IMPROVEMENT
4658 EVORA ROAD
CONCORD, CALIFORNIA 94520

## DETAILS, NOTES , SCHEDULES

| DATE | REMARKS |
|---|---|
| 05/17/2024 | PERMIT SUBMITTAL |

| | |
|---|---|
| PA/PM: | Approver |
| DRAWN BY.: | Author |
| JOB NO.: | SNR24-0001-00 |

SHEET
**P-4**


Matterhorn PLUMBING
8990 R□ncho Hill□ Dr.
Gilroy, CA 95020
Phone Number 408-839-3132
CSLB Licen□e Number □1049322

MATTERHORN PLUMBING
CLASSIFICATION C-36
LIC. NO. 1049322
This is a design-build project and the work shown on these plans has been designed and will be installed by Matterhorn Plumbing.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PLOTTED:5/17/2024

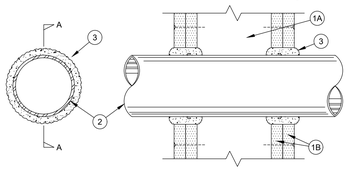
5/3/2024 10:45:37 AM

CAUTION: IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT

## System No. WL1001

(Formerly System No. 147)
F Rating- 1, 2, 3, and 4 Hr (See Items 2 and 3)
T Rating- 0, 1, 2, 3, and 4 Hr (See Item 3)
L Rating At Ambient- Less than 1 CFM/sq ft
L Rating At 400 F- Less than 1 CFM/sq ft

PROVIDE FIRE STOPPING WERE CONDUITS PASS THROUGH FIRE RATED WALLS – REFER TO ARCHITECTURAL DRAWINGS WERE THIS MAY OR MAY NOT OCCUR




SECTION A-A

1. Wall Assembly- The 1, 2, 3, or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction Features:
   a. Studs- Wall framing may consist of either wood studs (max 2 hr fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.
   b. Wallboard, Gypsum- Nom 1/2 or 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory Max diam of opening is 13-1/2 in.
2. Pipe or Conduit- Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe, nom 12 in. diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in diam (or smaller) class 50 (or heavier) ductile iron pressure pipe, nom 6 in, diam (or smaller) steel conduit, nom 4 in. diam (or smaller) steel electrical metallic tubing, nom 6 in. diam (or smaller) Type I, (or heavier) copper tubing or nom 1 in. diam (or smaller) flexible steel conduit. When copper pipe is used, max F Rating of firestop system (Item 3) is 2 hr. Steel pipes or conduits larger than nom 4 in. diam may only be used in walls constructed using steel channel studs. A max of one pipe or conduit is permitted in the firestop system. Pipe or conduit to be installed near center of stud cavity width and to be rigidly supported on both sides of wall assembly.
3. Fill, Void or Cavity Material- Caulk- Caulk fill material installed to completely fill annular space between pipe or conduit and gypsum wallboard and with a min 1/4 in. diam bead of caulk applied to perimeter of pipe or conduit at its egress from the wall. Caulk installed symmetrically on both sides of wall assembly. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed as tabulated below:

| Max Pipe or Conduit Diam, In | Annular Space, In | F Rating, Hr | T Rating, Hr |
|---|---|---|---|
| 1 | 0 to 3/16 | 1 or 2 | 0+, 1 or 2 |
| 1 | 1/4 to 1/2 | 3 or 4 | 3 pr 4 |
| 4 | 0 to 1/4 | 1 or 2 | 0 |
| 4 | 1 to 1-1/2# | 1 or 2 | 0 |
| 6 | 1/4 to 1/2 | 3 or 4 | 0 |
| 12 | 3/16 to 3/8 | 1 or 2 | 0 |

+ When copper pipe is used, T Rating is 0 hr
# 0 to 1-1/2 in. annular. space applies only when Type CP-25 WB+ caulk is used and only when the min thickness of the gypsum wallboard is 5/8 in. for 1 hr rated walls and 1-1/4 in. for 2 hr rated walls.

CONDUIT FIRE PENTRATION DETAIL 1

## ELECTRICAL ABBREVIATIONS

| | |
|---|---|
| A | AMPERE |
| AC | ABOVE COUNTER |
| AFF | ABOVE FINISHED FLOOR |
| ANN | ANNUNCIATOR |
| AIC | AMPS OF INTERRUPTING CAPACITY |
| ATS | AUTOMATIC TRANSFER SWITCH |
| AF | AMP FRAME |
| AT | AMP TRIP |
| BC | BELOW COUNTER |
| BMS | BUILDING MANAGEMENT SYSTEM |
| C | CONDUIT |
| CB | CIRCUIT BREAKER |
| CEC | CALIFORNIA ELECTRICAL CODE |
| CCTV | CLOSED CIRCUIT TELEVISION |
| CO | CONDUIT ONLY |
| CU | COPPER |
| CL | CURRENT LIMITING |
| (D) | DEMOED |
| (E) | EXISTING |
| (ER) | EXISTING RELOCATED |
| E.C. | ELECTRICAL CONTRACTOR |
| EM | FIXTURE WITH BATTERY BACKUP |
| EV | ELECTRIC VEHICLE |
| EWC | ELECTRIC WATER COOLER |
| F | FUSED |
| (F) | FUTURE |
| FA | FIRE ALARM SYSTEM |
| FACP | FIRE ALARM CONTROL PANEL |
| FBO | FURNISHED BY OTHERS |
| FDR | FEEDER |
| FS | FLOW SWITCH |
| FSD | FIRE SMOKE DAMPER |
| G | GROUND |
| GFI | GROUND FAULT INTERRUPTER |
| GND | GROUND |
| IG | ISOLATED GROUND |
| KVA | KILOVOLT–AMPERE |
| KW | KILOWATT |
| LA | LIGHTNING ARRESTOR |
| LCP | LIGHTING CONTROL PANEL |
| MCB | MAIN CIRCUIT BREAKER |
| MCC | MOTOR CONTROL CENTER |
| MLO | MAIN LUGS ONLY |
| MSB | MAIN SWITCHBOARD |
| MTS | MANUAL TRANSFER SWITCH |
| (N) | NEW |
| NEC | NATIONAL ELECTRICAL CODE |
| NEU | NEUTRAL |
| N.I.C. | NOT IN CONTRACT |
| NL | NIGHT LIGHT |
| NTS | NOT TO SCALE |
| O.C. | ON CENTER |
| PB | PULLBOX |
| PC | PHOTOELECTRIC CELL |
| PFB | PROVISION FOR BREAKER |
| PH | PHASE |
| PNL | PANEL |
| PV | PHOTOVOLTAIC |
| PVC | PVC CONDUIT |
| QTY | QUANTITY |
| (R) | EXISTING TO BE RELOCATED |
| REC | RECEPTACLE |
| REF | REFERENCE |
| REFR | REFRIGERATOR |
| RM | ROOM |
| SD | SMOKE DETECTOR |
| SEC | SECURITY SYSTEM |
| TBD | TO BE DETERMINED |
| TC | TIME CLOCK |
| TEL | TELEPHONE |
| TEL/DATA | TELEPHONE/DATA |
| TELECOM | TELECOMMUNICATION |
| TRANS | TRANSFORMER |
| TS | TAMPER SWITCH |
| TTB | TELEPHONE TERMINAL BACKBOARD |
| TYP | TYPICAL |
| U O N | UNLESS OTHERWISE NOTED |
| V | VOLT |
| VA | VOLT–AMPERE |
| VFD | VARIABLE FREQUENCY DRIVE |
| XFMR | TRANSFORMER |
| W | WIRE |
| W/ | WITH |
| WP | WEATHERPROOF |
| 3R | NEMA 3R ENCLOSURE |

## ELECTRICAL SYMBOLS LEGEND

- DUPLEX RECEPTACLE
- CONTROLLED/UNCONTROLLED DUPLEX RECEPTACLE
- DEDICATED DUPLEX RECEPTACLE
- GFI DUPLEX RECEPTACLE
- DEDICATED GFI DUPLEX RECEPTACLE
- QUAD RECEPTACLE
- CONTROLLED/UNCONTROLLED QUAD RECEPTACLE
- DEDICATED QUAD RECEPTACLE
- SINGLE RECEPTACLE
- USB PORT RECEPTACLE
- SPECIALITY RECEPTACLE
- 44" OUTLET MOUNTED ABOVE COUNTER TOP
- OUTLET MOUNTED ABOVE COUNTER TOP
- JUNCTION BOX, SIZE & TYPE AS REQUIRED
- MFF MODULAR FURN FEED - FLOOR - POWER & TELE/DATA
- MFW MODULAR FURN FEED - WALL - POWER & TELE/DATA
- PFC MODLR. FURN FEED - CEILING - PWR POLE W/TELE/DATA
- FLR POWER FLOOR BOX
- FLR POWER & TELE/DATA FLOOR BOX
- CLG POWER & TELE/DATA "ON" CEILING MOUNTED
- NON-FUSED DISCONNECT SWITCH
- F FUSED DISCONNECT SWITCH
- $M MANUAL DISCONNECT SWITCH FOR EQUIPMENT
- $K KEYED SWITCH FOR EQUIPMENT
- $P SWITCH FOR PROJECTOR SCREEN (FBO)
- POWER CONDUIT OR EMC
- HA-12 POWER CKT
- GD GARBAGE DISPOSER
- $IH INSTA HOT HARD WIRED CONNECTION
- $HD HAND DRYER HARD WIRED CONNECTION
- $CP CIRC PUMP HARD WIRED CONNECTION
- DF DRINKING FOUNTAIN CONNECTION
- VAV VAV XFMR HARD WIRED CONNECTION
- FSD FIRE SMOKE DAMPER HARD WIRED CONNECTION
- MDH MAGNETIC DOOR HOLD HARD WIRED CONNECTION
- MD MOTORIZED DOOR HARD WIRED CONNECTION
- $PRJ MOTORIZED PROJECTION SCREEN HARD WIRED CONNECTION
- $ NON-LIGHTING TOGGLE SWITCH

**POWER DISTRIBUTION EQUIPMENT**

- MAIN SWITCHBOARD - SEE ONE LINE DIAGRAM
- PANEL BOARD/ LIGHTING CONTROL PANEL

**TRANSFORMERS**

- T 15 & 30 KVA (20"W X 16"D)
- T 45 KVA (20"W X 20"D)
- T 75 KVA (30"W X 20"D)
- T 112.5 KVA (30"W X 24"D)
- T 150 KVA (32"W X 27"D)
- T 225 KVA (35"W X 29"D)
- T 300 KVA (41"W X 32"D)

### LIGHTING FIXTURES *(NOT ALL SYMBOLS USED ON PLANS)*

LETTER "TAG" NEXT TO FIXTURE IS FIXTURE TYPE PER LIGHT FIXTURE SCHEDULE

- 2X4 RECESSED
- 2X2 RECESSED
- 1X4 RECESSED
- 2X4 SURFACE
- 2X2 SURFACE
- 1X4 SURFACE
- STRIP LIGHT
- RECESSED DOWNLIGHT
- PENDANT FIXTURE
- WALL SCONCE FIXTURE
- TRACK LIGHTING
- POLE MTD. SITE LIGHTING
- WALL MTD. FIXTURE

### EMERGENCY LIGHTING

EMERGENCY LIGHTING - SHADED W/EM TAG

- EM EXIT SIGN
- EM EXIT SIGN W/LIGHT COMBO
- EM WALL MTD. EMERGENCY LIGHT
- EM CEILING MTD. EMERGENCY LIGHT

** ADDITIONAL SYMBOLS AS SHOWN ON PLANS - FOLLOW FIXTURE SCHEDULE*

### NLIGHT WIRED

- OCCUPANCY SENSOR - nCM PDT 9 RJB
- OCCUPANCY SENSOR - nCM PDT 9 RJB
- OCCUPANCY SENSOR EXTENDED RANGE - nCM PDT 10 RJB
- OCC SENSOR/DAYLIGHT SENSOR COMBO - nCM PDT10 ADCX RJB
- DAYLIGHT SENSOR - nCM ADCX RJB
- WIDE VIEW OCCUPANCY SENSOR - nWV PDT 16 KIT
- HALLWAY OCCUPANCY SENSOR - nHW13
- POWER PACK - nPP16
- UNIVERSAL PHASE DIMMER - nPP PDC
- DIMMING PACK - nPP16 D(S)
- DIMMING PACK W/ EMERGENCY OPERATION - nPP16 DS ER
- EMERGENCY BYPASS RELAY - PP16 SHUNT
- 2 WIRE PHASE CONTROL DIMMING PACK - nSP5 PCD 2W
- MAGNETIC LOW VOLTAGE PHASE CONTROL DIMMING PACK - nSP5 PCD MLV
- ELECTRONIC LOW VOLTAGE PHASE CONTROL DIMMING PACK - nSP5 PCD ELV 120
- POWER SUPPLY - nPS 80
- ON/OFF SWITCH - nPODMA
- MULTI-ZONE SWITCH - nPODMA 2P
- DIMMER SWITCH -nPODMA DX
- MULTI-ZONE DIMMER SWITCH - nPODMA 2P DX
- MULTI-ZONE DIMMER SWITCH - nPODMA 4P DX
- OCCUPANCY SENSOR & DIMMER SWITCH - nWSXA PDT LV DX
- GRAPHIC WALLPOD SWITCH - nPOD UNITOUCH
- BRIDGE - nBRG 8 KIT
- ECLYPSE CONTROLLER - nECY MVOLT

### LINE VOLTAGE

- PLUG LOAD CONTROLLER - nPP20 PL
- TOGGLE SWITCH
- 3 WAY TOGGLE SWITCH
- OCCUPANCY SENSOR SWITCH - WSXA PDT
- 2-POLE OCCUPANCY SNSR. SW. - WSXA PDT 2P
- DIMMING/OCC SNSR. SW. - WSXA PDT D
- OCCUPANCY SENSOR - CMR PDT 9
- OCCUPANCY SENSOR - CMR PDT 10

### WIRE LEGEND

- CAT5 CONNECTION
- 18-2 DIMMING CONNECTION
- LIGHTING CONDUIT (120/277V)
- DAYLIGHT ZONES (DYZ, SDZ, SDZ)

### SIGNAL

- TELECOM OUTLET
- DATA OUTLET
- TELECOM OUTLET
- WAP WIRELESS ACCESS POINT CEILING
- TV TELEVISION OUTLET
- AV AUDIO/VISUAL OUTLET
- SECURITY CAMERA MOUNTING AS RQRD.
- CR CARD READER
- ES ELECTRIC STRIKE PART OF DOOR HARDWARE
- PB PUSH BUTTON FOR ELECTRIC STRIKE
- SP SPEAKER CEILING
- CLOCK
- SIGNAL CONDUIT

## ELECTRICAL GENERAL NOTES

1. RACEWAYS, CABLE ASSEMBLIES, BOXES, CABINETS, AND FITTINGS SHALL BE SECURELY FASTENED IN PLACE. SUPPORT WIRES THAT DO NOT PROVIDE SECURE SUPPORT SHALL NOT BE PERMITTED AS THE SOLE SUPPORT. SUPPORT WIRES AND ASSOCIATED FITTINGS THAT PROVIDE SECURE SUPPORT AND THAT ARE INSTALLED IN ADDITION TO THE CEILING GRID SUPPORT WIRES SHALL BE PERMITTED AS THE SOLE SUPPORT. WHERE INDEPENDENT SUPPORT WIRES ARE USED, THEY SHALL BE SECURED AT BOTH ENDS. CABLES AND RACEWAYS SHALL NOT BE SUPPORTED BY CEILING GRIDS.
2. ELECTRICAL INSTALLATIONS IN HOLLOW SPACES, VERTICAL SHAFTS, AND VENTILATION OR AIR-HANDLING DUCTS SHALL BE MADE SO THAT THE POSSIBLE SPREAD OF FIRE OR PRODUCTS OF COMBUSTION WILL NOT BE SUBSTANTIALLY INCREASED. OPENINGS AROUND ELECTRICAL PENETRATIONS INTO OR THROUGH FIRE-RESISTANT-RATED WALLS, PARTITIONS, FLOORS, OR CEILINGS SHALL BE FIRESTOPPED USING APPROVED METHODS TO MAINTAIN THE FIRE RESISTANCE RATING.
3. EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE. THE IDENTIFICATION SHALL INCLUDE AN APPROVED DEGREE OF DETAIL THAT ALLOWS EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS. SPARE POSITIONS THAT CONTAIN UNUSED OVERCURRENT DEVICES OR SWITCHES SHALL BE DESCRIBED ACCORDINGLY. THE IDENTIFICATION SHALL BE INCLUDED IN A CIRCUIT DIRECTORY THAT IS LOCATED ON THE FACE OR INSIDE OF THE PANEL DOOR IN THE CASE OF A PANELBOARD AND AT EACH SWITCH OR CIRCUIT BREAKER IN A SWITCHBOARD OR SWITCHGEAR. NO CIRCUIT SHALL BE DESCRIBED IN A MANNER THAT DEPENDS ON TRANSIENT CONDITIONS OF OCCUPANCY
4. ALL SWITCHBOARDS AND PANEL BOARDS SUPPLIED BY A FEEDER SHALL BE MARKED TO INDICATE THE DEVICE OR EQUIPMENT WHERE THE POWER SUPPLY ORIGINATE
5. BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER WITH THHW, THW OR THWN INSULATION (75°C). #12 MINIMUM, EMT CONDUIT OR MC CABLE. CONDUIT SUPPORT SPACING, 10'-0" ON CENTER WITH SUPPORTS WITHIN 3'-0" OF OUTLET BOXES, CONDUIT TERMINATIONS, ETC.
6. FEEDER CONDUCTORS SHALL BE EITHER COPPER WITH THHW, THW OR THWN INSULATION OR ALUMINUM WITH XHHW INSULATION (75°C)
7. ALL ELECTRICAL RECEPTACLE OUTLETS & SWITCHING SHALL BE LOCATED NO MORE THAN 48" MEASURED FROM THE TOP OF THE SWITCH OR OUTLET BOX NOR LESS THAN 15" MEASURED FROM THE BOTTOM OF THE SWITCH OR OUTLET BOX TO THE LEVEL OF THE FINISH FLOOR.
8. ALL WORK SHALL COMPLY WITH THE 2022 CALIFORNIA ELECTRICAL CODE & 2022 TITLE 24 ENERGY COMPLIANCE MANDATES.
9. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL. LOCATIONS ARE NOT EXACT. PLEASE REFER TO ARCHITECTURAL SHEETS AND FIELD VERIFY LOCATIONS BEFORE INSTALLATION. ALL BUILDING CODES SUPERSEDE LOCATION PLACEMENT ON PLANS.

## GENERAL ELECTRICAL SCOPE OR WORK

ELECTRICAL SCOPE OF WORK CONSIST OF ELECTRICAL PROVISIONS FOR A TENANT IMPROVEMENT OF AN EXISTING BUILDING STRUCTURE AS DESCRIBED HEREIN.

## ELECTRICAL SHEET INDEX

| SHEET | SHEET NO. | SHEET TITLE |
|---|---|---|
| 1 | E0.1 | ELECTRICAL COVER SHEET |
| 2 | E0.2 | ONE-LINE DIAGRAM & SCHEDULES |
| 3 | E1.1 | POWER PLAN |
| 4 | E1.2 | POWER PLAN - ROOF |
| 5 | E2.1 | LIGHTING PLAN |
| 6 | E2.2 | PHOTOMETRIC PLAN |
| 7 | ET24.1 | ELECTRICAL ENERGY COMPLIANCE SHEETS |
| 8 | ET24.2 | ELECTRICAL ENERGY COMPLIANCE SHEETS |
| 9 | | |
| 10 | | |
| 11 | | |

### SWITCHING

13a,b — FIXTURE CIRCUIT 13 CONTROLLED BY SWITCH LEGS "a" & "b"

### CIRCUITRY

- CONDUCTOR SIZE INCREASE AS INDICATED
- HOME RUN — #10 #10 — NO MARKS INDICATE 3#12 CONDUCTORS HOT, NEUT, GND)
- GROUND
- PHASE CONDUCTORS #12 UNO
- NEUTRAL CONDUCTOR
- HL1-1, 3/5, 7/9/11 — THREE CKT (THREE PHASE) CKT NUMBERS (NO NEUTRAL); TWO CKT (SINGLE PHASE) CKT NUMBERS (NO NEUTRAL)
- CKT NUMBER
- PANEL IDENTIFIER

### PATHWAYS & MISC

- CONDUIT OR MC CABLE CONCEALED OR EXPOSED AS REQUIRED
- PVC CONDUIT IN GROUND OR UNDERFLOOR
- CONDUIT/MC CABLE HOMERUN
- GROUNDNG CONNECTION
- CONDUIT STUB OUT OR UP
- 1/E SHEET REFERENCE CALLOUT
- 4 NOTE CALLOUT TAG
- A/C 1 EQUIPMENT TAG AS SHOWN ON MECHANICAL & PLUMBING PLANS


WARE MALCOMB
ARCHITECTURE PLANNING INTERIORS
CIVIL ENGINEERING BRANDING BUILDING MEASUREMENT
4683 Chabot Dr. Suite #300
Pleasanton, CA 94588
P 925.244.6620



ELECTRICAL DESIGN BUILD CONTRACTOR:
NORTH STATE ELECTRICAL CONTRACTORS, INC.
CA LICENSE C7/C10 #886289
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NSE #1954


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# U-HAUL TENANT IMPROVEMENT
4658 EVORA ROAD
CONCORD, CALIFORNIA 94520

Unnamed

| DATE | REMARKS |
|---|---|
| 05/17/2024 | PERMIT SUBMITTAL |

| | |
|---|---|
| PA/PM: | E.Eyerly |
| DRAWN BY.: | K.Soderquist |
| JOB NO.: | SNR24-0001-00 |

SHEET
E0.1

5/3/2024 10:45:37 AM


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CAUTION: IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT

## FEEDER SCHEDULE
**ALUMINUM CONDUCTORS**

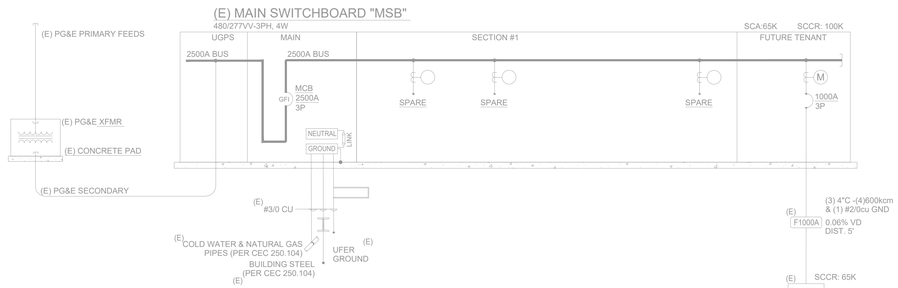
| FEEDER | CONDUIT | | CONDUCTOR (EA. CONDUIT) | | GROUNDING EA. CONDUIT | | AMPERE |
|---|---|---|---|---|---|---|---|
| CALLOUT | QTY | SIZE | QTY | AWG | QTY | AWG | RATING |
| F30A | 1 | 3/4" | 4 | #8 | 1 | #12 | *30A* |
| F40A | 1 | 1" | 4 | #6 | 1 | #12 | *40A* |
| F50A | 1 | 1 1/4" | 4 | #4 | 1 | #12 | *55A* |
| F60A | 1 | 1 1/4" | 4 | #3 | 1 | #10 | *65A* |
| F70A F75A | 1 | 1 1/4" | 4 | #2 | 1 | #10 | *75A* |
| F80A | 1 | 1 1/2" | 4 | #1 | 1 | #10 | *85A* |
| F90A | 1 | 1 1/2" | 4 | #1/0 | 1 | #10 | *120A* |
| F100A | 1 | 1 1/2" | 4 | #1/0 | 1 | #8 | *120A* |
| F125A | 1 | 1 1/2" | 4 | #2/0 | 1 | #8 | *135A* |
| F150A | 1 | 2" | 4 | #3/0 | 1 | #8 | *155A* |
| F175A | 1 | 2 1/2" | 4 | #4/0 | 1 | #8 | *180A* |
| F200A | 1 | 2 1/2" | 4 | 250 kcm | 1 | #6 | *205A* |
| F225A | 1 | 2 1/2" | 4 | 300 kcm | 1 | #6 | *230A* |
| F250A | 1 | 2 1/2" | 4 | 350 kcm | 1 | #6 | *250A* |
| F275A | 1 | 3" | 4 | 500 kcm | 1 | #6 | *310A* |
| F300A | 1 | 3" | 4 | 500 kcm | 1 | #4 | *310A* |
| F325A | 1 | 3 1/2" | 4 | 600 kcm | 1 | #3 | *340A* |
| F350A | 2 | 2" | 4 | #4/0 | 1 | #3 | *360A* |
| F400A | 2 | 2 1/2" | 4 | 250 kcm | 1 | #3 | *410A* |
| F500A | 2 | 3" | 4 | 350 kcm | 1 | #2 | *500A* |
| F600A | 2 | 3" | 4 | 500 kcm | 1 | #1 | *620A* |
| F800A | 3 | 3" | 4 | 400 kcm | 1 | #1/0 | *810A* |
| F1000A | 3 | 4" | 4 | 600 kcm | 1 | #2/0 | *1020A* |
| *NO NEUTRAL* | | | | | | | |
| F70A/N | 1 | 1 1/4" | 3 | #2 | 1 | #6 | *75A* |
| F80A/N | 1 | 1 1/4" | 3 | #1 | 1 | #6 | *85A* |
| F90A/N | 1 | 1 1/2" | 3 | #1/0 | 1 | #6 | *120A* |
| F100A/N | 1 | 1 1/2" | 3 | #1/0 | 1 | #6 | *120A* |
| F125A/N | 1 | 1 1/2" | 3 | #2/0 | 1 | #4 | *135A* |
| F150A/N | 1 | 2" | 3 | #3/0 | 1 | #4 | *155A* |
| F175A/N | 1 | 2 1/2" | 3 | #4/0 | 1 | #4 | *180A* |
| F200A/N | 1 | 2 1/2" | 3 | 250 kcm | 1 | #4 | *205A* |
| F225A/N | 1 | 2 1/2" | 3 | 300 kcm | 1 | #2 | *230A* |
| F250A/N | 1 | 2 1/2" | 3 | 350 kcm | 1 | #2 | *250A* |
| F275A/N | 1 | 2 1/2" | 3 | 500 kcm | 1 | #2 | *310A* |
| F300A/N | 1 | 2 1/2" | 3 | 500 kcm | 1 | #2 | *310A* |
| F325A/N | 1 | 3" | 3 | 600 kcm | 1 | #1 | *340A* |
| F350A/N | 2 | 2" | 3 | #4/0 | 1 | #1 | *360A* |
| F400A/N | 2 | 2" | 3 | 250 kcm | 1 | #1 | *410A* |
| F500A/N | 2 | 2 1/2" | 3 | 350 kcm | 1 | #1/0 | *500A* |
| F600A/N | 2 | 2 1/2" | 3 | 500 kcm | 1 | #2/0 | *620A* |
| F800A/N | 3 | 2 1/2" | 3 | 400 kcm | 1 | #3/0 | *810A* |
| F1000A/N | 3 | 3" | 3 | 600 kcm | 1 | #4/0 | *1020A* |

*NOT ALL FEEDERS USED*

## FEEDER SCHEDULE
**COPPER CONDUCTORS 75C**

| FEEDER | CONDUIT | | CONDUCTOR EA. CONDUIT | | GROUND EA. CONDUIT | | AMPS |
|---|---|---|---|---|---|---|---|
| CALLOUT | QTY | SIZE | QTY | AWG | QTY | AWG | RATING |
| 30/4C | 1 | 3/4" | 4 | #10 | 1 | #10 | *30A* |
| 40/4C | 1 | 3/4" | 4 | #8 | 1 | #10 | *50A* |
| 50/4C | 1 | 3/4" | 4 | #8 | 1 | #10 | *50A* |
| 60/4C | 1 | 1" | 4 | #6 | 1 | #10 | *65A* |
| 70/4C | 1 | 1" | 4 | #4 | 1 | #8 | *85A* |
| 80/4C | 1 | 1" | 4 | #4 | 1 | #8 | *85A* |
| 90/4C | 1 | 1 1/4" | 4 | #2 | 1 | #8 | *115A* |
| 100/4C | 1 | 1 1/4" | 4 | #2 | 1 | #8 | *115A* |
| 125/4C | 1 | 1 1/2" | 4 | #1 | 1 | #6 | *130A* |
| 150/4C | 1 | 1 1/2" | 4 | #1/0 | 1 | #6 | *150A* |
| 175/4C | 1 | 2" | 4 | #2/0 | 1 | #6 | *175A* |
| 200/4C | 1 | 2" | 4 | #3/0 | 1 | #6 | *200A* |
| 225/4C | 1 | 2" | 4 | #4/0 | 1 | #4 | *230A* |
| 250/4C | 1 | 2 1/2" | 4 | 250 kcm | 1 | #4 | *255A* |
| 275/4C | 1 | 2 1/2" | 4 | 300 kcm | 1 | #4 | *285A* |
| 300/4C | 1 | 2 1/2" | 4 | 350 kcm | 1 | #4 | *310A* |
| 325/4C | 1 | 3 1/2" | 4 | 400 kcm | 1 | #3 | *335A* |
| 350/4C | 1 | 3" | 4 | 500 kcm | 1 | #3 | *380A* |
| 400/4C | 2 | 2" | 4 | #3/0 | 1 | #3 | *400A* |
| NO NEUTRAL | | | | | | | |
| 100/3C | 1 | 1 1/4" | 3 | #2 | 1 | #8 | *115A* |

*1. Conduit parameters are based on type EMT, Conductor parameters are based on type THHN.*
*2. Ampacities are taken from table CEC 310.16.*




## VOLTAGE DROP CALCULATION - FEEDER CIRCUITS

| FROM | TO | VOLTAGE | WIRE TYPE | SINGLE PHASE (2) THREE PHASE (1.73) | DIRECT CURRENT CONSTANT (K) | LOAD IN AMPS (I) | DISTANCE FROM SUPPLY (L) | CIRCULAR MIL (CM) | VOLTAGE DROP (VD) | VOLTAGE DROP % (VD%) |
|---|---|---|---|---|---|---|---|---|---|---|
| MDP | Panel H1 | 480 | 3/0 | 1.73 | 12.9 | 200 | 40 | 167800 | 1.06 | -0.222% |
| Panel H1 | XFMR TL1 | 480 | #2 | 1.73 | 12.9 | 100 | 5 | 66360 | 0.17 | -0.035% |
| XFMR TL1 | Panel TL1 | 208 | 3/0 | 1.73 | 12.9 | 200 | 5 | 167800 | 0.13 | -0.064% |

(E) ONE LINE DIAGRAM (1) NTS

*All newly provided breakers need to match existing AIC rating of the panel.*
*Verify in field AIC Rating for Panels to match new breakers.*

**208/120V-3PH, 4W** — 200 Amp Bus — KAIC Rating: **14K** — 200A **MCB** — Mounting: **Surface** — NEMA: **1** — NEW Panelboard — **"L1"**
Note: Fed from Panel H1 via XFMR "TL1".

| Voltage Drop % | Size | Feet | N | Description | L | KVA | CB | # | A | B | C | # | CB | KVA | L | Description | N | Feet | Size | Voltage Drop % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.6 | 12 | 30 | | General Off. Lighting/CLG Exhaust Fans | C | 0.84 | 20/1 | 1 | X | | | 2 | 20/1 | 0.90 | R | Recepts - Breakroom/Offi 107 | | 22 | 12 | 0.5 |
| 2.6 | 12 | 81 | | General Off. Lighting/CLG Exhaust Fans | C | 1.34 | 20/1 | 3 | | X | | 4 | 20/1 | 0.90 | R | TV Recepts - Showroom | | 30 | 12 | 0.6 |
| 0.1 | 12 | 4 | | Microwave - Breakroom | N | 1.20 | 20/1 | 5 | | | X | 6 | 20/1 | 0.72 | R | Power Pole - Showroom casework | | 36 | 12 | 0.6 |
| 0.1 | 12 | 6 | | Coffee - Breakroom | N | 1.00 | 20/1 | 7 | X | | | 8 | 20/1 | 0.90 | R | Recepts - Showroom | | 40 | 12 | 0.9 |
| 0.2 | 12 | 9 | | Garbage Disp. - Breakroom | N | 0.80 | 20/1 | 9 | | X | | 10 | 20/1 | 1.00 | N | Water Fountain/GFI Recept - RR 105 | | 64 | 12 | 1.5 |
| 0.1 | 12 | 13 | | GFI Recepts - Breakroom | R | 0.36 | 20/1 | 11 | | | X | 12 | 30/2 | 2.08 | N | Insta-Hot - RR 105 | | 67 | 10 | 1.4 |
| 0.3 | 12 | 15 | | Refer - Breakroom | N | 0.90 | 20/1 | 13 | X | | | 14 | /2 | 2.08 | N | - | | 67 | 10 | 1.4 |
| 0.3 | 12 | 12 | | Water Fountain/GFI Recept - RR 109 | N | 1.00 | 20/1 | 15 | | X | | 16 | 20/1 | 1.08 | R | Recepts - Storage Room | | 85 | 12 | 2.2 |
| 0.7 | 12 | 20 | | Water Heater - Hitch Bay | N | 1.50 | 20/1 | 17 | | | X | 18 | 20/1 | 1.08 | R | Recepts - Showroom | | 117 | 12 | 3.0 |
| 1.7 | 12 | 80 | | Recepts - Hitch Bay | R | 0.90 | 20/1 | 19 | X | | | 20 | | | | SPACE | | | | 0 |
| 0 | | | | SPACE | | | | 21 | | X | | 22 | | | | SPACE | | | | 0 |
| 0 | | | | SPACE | | | | 23 | | | X | 24 | | | | SPACE | | | | 0 |
| 0 | | | | SPACE | | | | 25 | X | | | 26 | | | | SPACE | | | | 0 |
| 0 | | | | SPACE | | | | 27 | | X | | 28 | | | | SPACE | | | | 0 |
| 0 | | | | SPACE | | | | 29 | | | X | 30 | | | | SPACE | | | | 0 |
| 1.5 | 10 | 90 | 1 | AC-1 | C | 2.21 | 30/3 | 31 | X | | | 32 | | | | SPACE | | | | 0 |
| 1.5 | 10 | 90 | 1 | - | C | 2.21 | /3 | 33 | | X | | 34 | 20/1 | 0.72 | R | GFI Recepts - Roof | | 75 | 12 | 1.3 |
| 1.5 | 10 | 90 | 1 | - | C | 2.21 | /3 | 35 | | | X | 36 | 15/1 | 0.36 | N | REF - 1 | | 48 | 12 | 0.4 |
| 1.5 | 10 | 90 | | AC-2 | N | 2.21 | 30/3 | 37 | X | | | 38 | 30/3 | 2.21 | N | AC-3 | | 54 | 10 | 0.9 |
| 1.5 | 10 | 90 | | - | N | 2.21 | /3 | 39 | | X | | 40 | /3 | 2.21 | N | - | | 54 | 10 | 0.9 |
| 1.5 | 10 | 90 | | - | N | 2.21 | /3 | 41 | | | X | 42 | /3 | 2.21 | N | - | | 54 | 10 | 0.9 |
| | | | | | | 14.9 | | | | 14.4 | | | | 14.5 | | | | | | |

General Note:
1. Provide handle ties for ckts sharing neutral.
2. Voltage drops are calculated using effective *Z* at .85 *PF*., uncoated copper.
Notes:
1. Largest motor counted at 125% "C" load.
2. Not used
3. Not used

Load Type "L": Continuous: C; Non-Continuous: N; Receptacle: R; Panel: P

| *Demand Load* | *Totals* |
|---|---|
| Continuous: | 8.8 KVA |
| 25% Continuous: | 2.2 KVA |
| Feed-Through Lugs: | 0.0 KVA |
| Demand Factors: | 0.0 KVA |
| Non-Continuous: | 25.2 KVA |
| Receptacle: | 7.6 KVA |
| Recpt.(<10KVA x.5): | 0.0 KVA |
| Sub Panel: | 0.0 KVA |
| **Total:** | **43.8 KVA** |
| | **121.4 Amps** |

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*All newly provided breakers need to match existing AIC rating of the panel.*
*Verify in field AIC Rating for Panels to match new breakers.*

**480/277V-3PH, 4W** — 200 Amp Bus — KAIC Rating: **35K** — 200A **MLO** — Mounting: **Surface** — NEMA: **1** — NEW Panelboard — **"H1"**
Note: Fed from Dist. Panel "MDP"

| Voltage Drop % | Size | Feet | N | Description | L | KVA | CB | # | A | B | C | # | CB | KVA | L | Description | N | Feet | Size | Voltage Drop % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | | | SPACE | | | | 1 | X | | | 2 | | | | SPACE | | | | 0 |
| 0 | | | | SPACE | | | | 3 | | X | | 4 | | | | SPACE | | | | 0 |
| 0 | | | | SPACE | | | | 5 | | | X | 6 | | | | SPACE | | | | 0 |
| 0 | | | | SPACE | | | | 7 | X | | | 8 | | | | SPACE | | | | 0 |
| 0 | | | | SPACE | | | | 9 | | X | | 10 | | | | SPACE | | | | 0 |
| 0 | | | | SPACE | | | | 11 | | | X | 12 | | | | SPACE | | | | 0 |
| 0 | | | | SPACE | | | | 13 | X | | | 14 | | | | SPACE | | | | 0 |
| 0 | | | | SPACE | | | | 15 | | X | | 16 | | | | SPACE | | | | 0 |
| 0 | | | | SPACE | | | | 17 | | | X | 18 | | | | SPACE | | | | 0 |
| 0 | | | | SPACE | | | | 19 | X | | | 20 | | | | SPACE | | | | 0 |
| 0 | | | | SPACE | | | | 21 | | X | | 22 | | | | SPACE | | | | 0 |
| 0 | | | | SPACE | | | | 23 | | | X | 24 | | | | SPACE | | | | 0 |
| 0 | | | | SPACE | | | | 25 | X | | | 26 | | | | SPACE | | | | 0 |
| 0 | | | | SPACE | | | | 27 | | X | | 28 | | | | SPACE | | | | 0 |
| 0 | | | | SPACE | | | | 29 | | | X | 30 | | | | SPACE | | | | 0 |
| 0 | | | | SPACE | | | | 31 | X | | | 32 | | | | SPACE | | | | 0 |
| 0 | | | | SPACE | | | | 33 | | X | | 34 | | | | SPACE | | | | 0 |
| 0 | | | | SPACE | | | | 35 | | | X | 36 | | | | SPACE | | | | 0 |
| 0 | | | | SPACE | | | | 37 | X | | | 38 | 100/3 | 14.58 | P | XFMR "TL1" to Panel "L1" | | 2 | | 0.0 |
| 0 | | | | SPACE | | | | 39 | | X | | 40 | /3 | 14.58 | P | - | | 2 | | 0.0 |
| 0 | | | | SPACE | | | | 41 | | | X | 42 | /3 | 14.58 | P | - | | 2 | | 0.0 |
| | | | | | | | | | | 14.6 | | | | 14.6 | | | | | | |

General Note:
1. Provide handle ties for ckts sharing neutral.
2. Voltage drops are calculated using effective *Z* at .85 *PF*., uncoated copper.
Notes:
1. Largest motor counted at 125% "C" load.
2. See One-Line Diagram on Sheet E0.2 for Feeder sizes and VD calculations
3. Not used

Load Type "L": Continuous: C; Non-Continuous: N; Receptacle: R; Panel: P

| *Demand Load* | *Totals* |
|---|---|
| Continuous: | 0.0 KVA |
| 25% Continuous: | 0.0 KVA |
| Feed-Through Lugs: | 0.0 KVA |
| Demand Factors: | 0.0 KVA |
| Non-Continuous: | 0.0 KVA |
| Receptacle: | 0.0 KVA |
| Recpt.(<10KVA x.5): | 0.0 KVA |
| Sub Panel | 43.8 KVA |
| **Total:** | **43.8 KVA** |
| | **52.6 Amps** |

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*New/Altered loads are bolded, everything else is existing, for reference only*
*All newly provided breakers need to match existing AIC rating of the panel.*
*Verify in field AIC Rating for Panels to match new breakers.*

**480/277V-3PH, 4W** — 1000A Bus — KAIC Rating: **65K** — 1000A **MLO** — Mounting: **Surface** — NEMA: **1** — EXISTING Panelboard — **"MDP"**
Note: Fed from MSB

| Voltage Drop % | Size | Feet | N | Description | L | KVA | CB | # | A | B | C | # | CB | KVA | L | Description | N | Feet | Size | Voltage Drop % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | Panel "HH" | P | 13.23 | 200/3 | 1 | X | | | 2 | **200/3** | **14.58** | **P** | **Panel "H1"** | **2** | | | **0.0** |
| 0.0 | | | | - | P | 13.23 | /3 | 3 | | X | | 4 | **/3** | **14.58** | **P** | **-** | **2** | | | **0.0** |
| 0.0 | | | | - | P | 13.23 | /3 | 5 | | | X | 6 | **/3** | **14.58** | **P** | **-** | **2** | | | **0.0** |
| 0.0 | | | | Panel "EV" | P | 41.60 | 175/3 | 7 | X | | | 8 | | | | | | | | 0 |
| 0.0 | | | | - | P | 41.60 | /3 | 9 | | X | | 10 | | | | | | | | 0 |
| 0.0 | | | | - | P | 41.60 | /3 | 11 | | | X | 12 | | | | | | | | 0 |
| 0 | | | | | | | | 13 | X | | | 14 | | | | | | | | 0 |
| 0 | | | | | | | | 15 | | X | | 16 | | | | | | | | 0 |
| 0 | | | | | | | | 17 | | | X | 18 | | | | | | | | 0 |
| 0 | | | | | | | | 19 | X | | | 20 | | | | | | | | 0 |
| 0 | | | | | | | | 21 | | X | | 22 | | | | | | | | 0 |
| 0 | | | | | | | | 23 | | | X | 24 | | | | | | | | 0 |
| | | | | | | | | | | 69.4 | | | | 69.4 | | | | | | |

General Note:
1. Provide handle ties for ckts sharing neutral.
2. Voltage drops are calculated using effective *Z* at .85 *PF*., uncoated copper.
Notes:
1. Largest motor counted at 125% "C" load.
2. See One-Line Diagram on Sheet E0.2 for Feeder sizes and VD calculations
3. Not used

Load Type "L": Continuous: C; Non-Continuous: N; Receptacle: R; Panel: P

| *Demand Load* | *Totals* |
|---|---|
| Continuous: | 0.0 KVA |
| 25% Continuous: | 0.0 KVA |
| Feed-Through Lugs: | 0.0 KVA |
| Demand Factors: | 0.0 KVA |
| Non-Continuous: | 0.0 KVA |
| Receptacle: | 0.0 KVA |
| Recpt.(<10KVA x.5): | 0.0 KVA |
| Sub Panel | 208.2 KVA |
| **Total:** | **208.2 KVA** |
| | **250.5 Amps** |

5/17/2024 10:59

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# U-HAUL TENANT IMPROVEMENT
4658 EVORA ROAD
CONCORD, CALIFORNIA 94520

Unnamed

| REMARKS |
|---|
| PERMIT SUBMITTAL |
| DATE 05/17/2024 |

| | |
|---|---|
| PA/PM: | E.Eyerly |
| DRAWN BY.: | K.Soderquist |
| JOB NO.: | SNR24-0001-00 |

SHEET
E0.2

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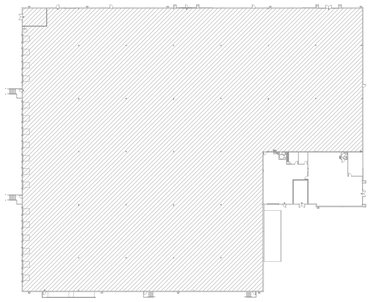


2 E1.1 KEY PLAN

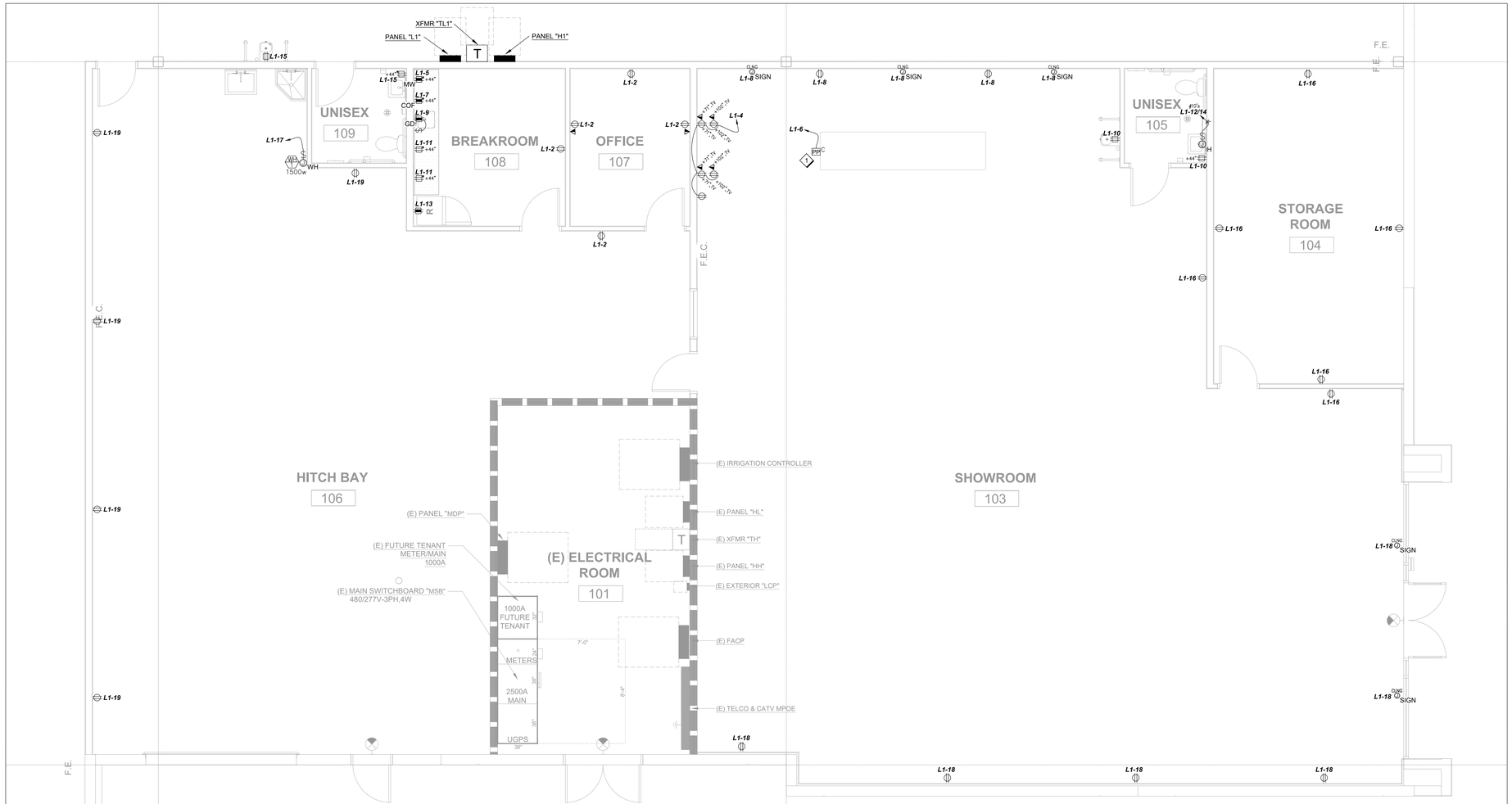
SCALE : NTS

NUMBERED NOTES:

1. POWER POLE FEED INCLUDES POWER AND DATA. POWER POLE BY OTHERS. VERIFY EXACT LOCATION IN FIELD WITH GC/CLIENT.

GENERAL NOTES:

1. REFER TO ARCHITECTURAL PLANS FOR DEMOLITION DETAILS AND BUILDING KEY PLANS.
2. SHOWN RECEPTACLES MAY BE OMITTED IF LOCATED WITHIN 24" OF AN EXISTING RECEPTACLE.
3. EXISTING RECEPTACLES (NOT SHOWN ON FLOOR PLANS) SHALL REMAIN OPERATIONAL. REFEED AS NEEDED AFTER WALL REMOVALS.
4. PROVIDE CONDUIT STUBS FOR ALL DEVICES INSTALLED INTO EXISTING FIRE RATED WALLS. REFER TO ARCHITECTURAL PLANS FOR FIRE RATED WALL LOCATIONS.




2 E1.1 POWER PLAN

SCALE : 1/4" = 1'-0"

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4658 EVORA ROAD
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Unnamed

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| 05/17/2024 | PERMIT SUBMITTAL |

| | |
|---|---|
| PA/PM: | E.Eyerly |
| DRAWN BY.: | K.Soderquist |
| JOB NO.: | SNR24-0001-00 |

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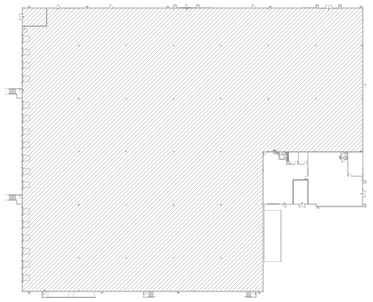
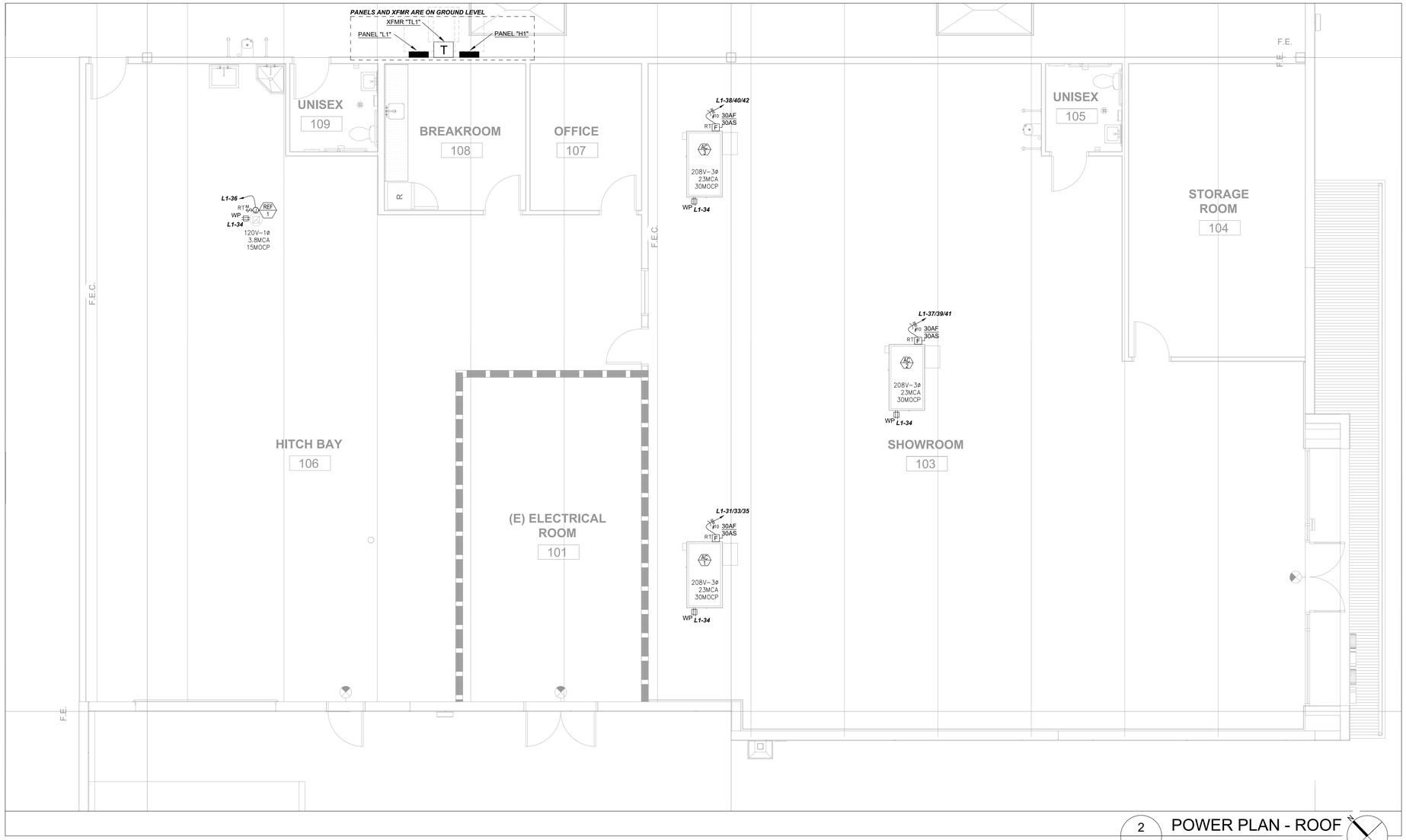


2 E1.2 KEY PLAN

SCALE : NTS

## GENERAL NOTES:

1. ALL EQUIPMENT INSTALLED ON ROOF TOP SHALL BE NEMA 3R.
2. REFER TO RESPECTIVE MECHANICAL AND PLUMBING DWGS FOR RESPECTIVE EQUIPMENT LOCATIONS AND SPECIFICS.
3. PROVIDE FUSING PER EQUIPMENT NAMEPLATES - FIELD VERIFY.
4. PROVIDE ROOF JACKS AS REQUIRED OR PENETRATE VIA MECH ROOF CURB - VERIFY WITH PM.
5. PROVIDE A WEATHER PROOF GFI RECEPTACEL WITH AN EXTRA DUTY "IN USE" COVER FOR ROOF TOP UNITS - INSURE THAT ALL EQUIPMENT HAS A RECEPTACLE WITHIN 25' PER MECH CODE.
6. FIELD VERIFY EXACT POWER POC ON AC UNIT.




2 E1.1 POWER PLAN - ROOF

SCALE : 1/4" = 1'-0"

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# U-HAUL TENANT IMPROVEMENT
4658 EVORA ROAD
CONCORD, CALIFORNIA 94520

Unnamed

| DATE | REMARKS |
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| 05/17/2024 | PERMIT SUBMITTAL |

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|---|---|
| PA/PM: | E.Eyerly |
| DRAWN BY.: | K.Soderquist |
| JOB NO.: | SNR24-0001-00 |

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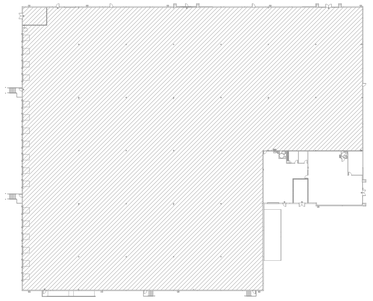


2 E2.1 KEY PLAN

SCALE : NTS

## LIGHT FIXTURE NOTES:

1. PROVIDE LIGHT FIXTURES PER APPROVED LIGHTING SUBMITTAL.
2. PROVIDE FIXTURE COLORS PER ARCHITECT.
3. REFER TO ARCHITECTURAL CEILING PLAN FOR CEILING TYPES AND PROVIDE LIGHT FIXTURE FINISHES AS REQUIRED.
4. THE EXACT QUANTITIES AND TYPE OF FIXTURES SHALL BE AS SHOWN ON LIGHT FLOOR PLANS ON PERMIT APPROVED SET.

## NUMBERED NOTES:

1. TYPICAL FOR ALL HIGH BAY FIXTURES "HB/HBE" IN HITCH BAY: ALL HIGH BAY FIXTURES IN THIS AREA HAVE IMBEDDED OCCUPANCY SENSORS TO COMPLY WITH 2022 CEnC §130.1(c) SHUT-OFF CONTROL REQUIREMENTS.

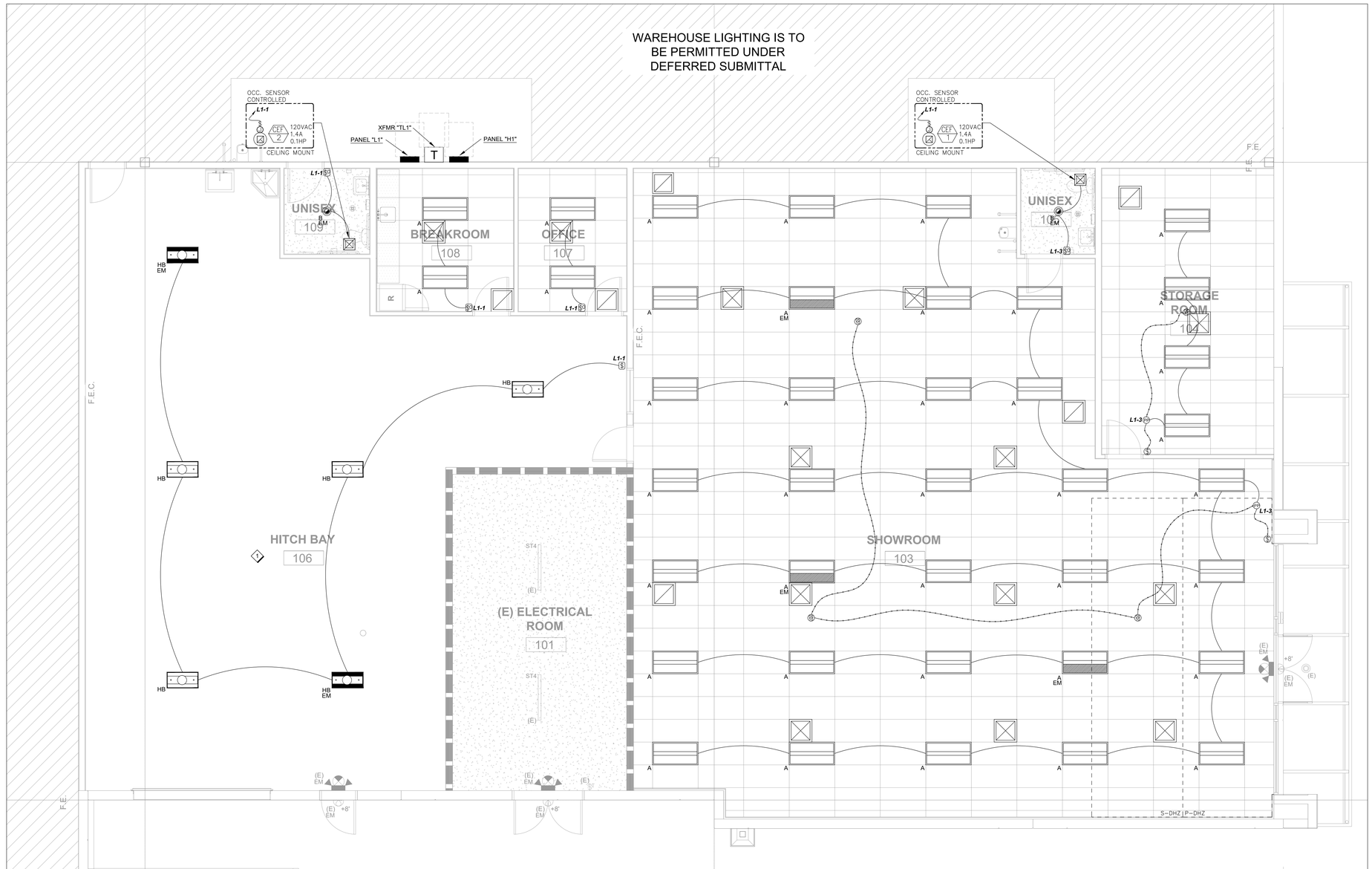
## GENERAL NOTES:

1. REFER TO ARCHITECTURAL PLANS FOR DETAILS AND BUILDING KEY PLANS.
2. EMERGENCY LIGHTING IS NEW AND TO BE CONNECTED TO UNSWITCHED HOT OF LIGHTING CIRCUIT FEEDING THE AREA.
3. EXIT SIGN/BUGEYE COMBOS ARE EXISTING TO REMAIN.
4. DIMMING IS NOT REQUIRED PER §130.1(b) OF 2022 ENERGY EFFICIENCY STANDARDS. GENERAL LIGHTING OF ENCLOSED AREAS GREATER THAN 100SQFT HAS A CONNECTED LIGHTING LOAD LESS THAN 0.5 WATTS PER SQFT.
5. DAYLIGHT HARVESTING IS NOT REQUIRED PER §130.1(d) EXCEPTION 3. GENERAL LIGHTING TOTAL INSTALLED LIGHTING WATTAGE IS LESS THEN 120 WATTS WITHIN EACH PRIMARY DAYLIGHTING ZONE.
6. ALL EXTERIOR EXITS WITHIN SCOPE OF WORK HAVE BEEN FIELD VERIFIED TO HAVE EXISTING EXTERIOR EXIT LANDING PAD EMERGENCY FIXTURES.
6. ALL EXIT-LIGHTS SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 924, PER 2022 CBC SEC. 1013.5

## FIXTURE SCHEDULE

| Fixture Total Watts | QTY. | TAG | DESCRIPTION | CATALOG NUMBER | LAMP | WATTS | VOLTAGE | DIMMING | LUMENS | TEMP | MOUNTING | USE | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **INTERIOR LIGHTING** | | | | | | | | | | | | | |
| 1188 | 36 | A | 2x4 LED Troffer | LITHONIA STAK 2x4 4000LM 80CRI 40K COL MIN10 ZT MVOLT | LED | 33 | MVOLT | 0-10V | 4000 | 40K | Recessed in Tbar | General Lighting | |
| 99 | 3 | A EM | 2x4 LED Troffer w/ EM Backup | LITHONIA STAK 2x4 4000LM 80CRI 40K COL MIN10 ZT MVOLT E10WLCP | LED | 33 | MVOLT | 0-10V | 4000 | 40K | Recessed in Tbar | General Lighting/ Egress Path | With 90 Min Battery Backup |
| 38 | 2 | B | 6" LED Round Downlight | LITHONIA LBR6 NCH ALO2 SWW1 AR LSS MWD MVOLT UGZ | LED | 19 | MVOLT | 0-10V | 1500 | 40K | Recessed in Hardlid | Restrooms | |
| 348 | 4 | HB | LED High Bay Fixture w/Imbedded Occ sensors | LITHONIA CPHB 12000LM SEF GCL MD MVOLT GZ10 40K 80CRI LSXR6 DWH | LED | 87 | MVOLT | 0-10V | 12000 | 40K | Suspended | Hitch Bay | With Imbedded Occupancy Sensors |
| 174 | 2 | HB EM | LED High Bay Fixture w/Imbedded Occ sensors & EM backup | LITHONIA CPHB 12000LM SEF GCL MD MVOLT GZ10 40K 80CRI E10WCP LSXR6 DWH | LED | 87 | MVOLT | 0-10V | 12000 | 40K | Suspended | Hitch Bay | With Imbedded Occupancy Sensors and 90 Min Battery Backup |
| TOTAL INT. WATTS | | | | | | | | | | | | | |
| 1847 | | | | | | | | | | | | | |

WAREHOUSE LIGHTING IS TO BE PERMITTED UNDER DEFERRED SUBMITTAL




1 E2.1 LIGHTING PLAN

SCALE : 1/4" = 1'-0"

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# U-HAUL TENANT IMPROVEMENT
4658 EVORA ROAD
CONCORD, CALIFORNIA 94520

Unnamed

| DATE | REMARKS |
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| 05/17/2024 | PERMIT SUBMITTAL |

| | |
|---|---|
| PA/PM: | E.Eyerly |
| DRAWN BY.: | K.Soderquist |
| JOB NO.: | SNR24-0001-00 |

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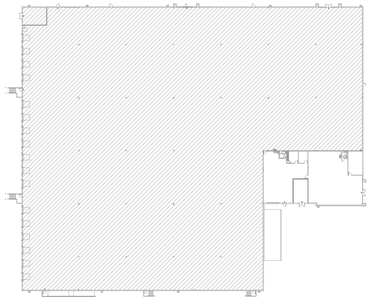

2 E2.2 KEY PLAN

SCALE : NTS

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | A | 39 | Lithonia Lighting | STAK 2X4 4000LM 80CRI 40K COL MVOLT | Recessed Center Element LED Lay in, 2ftX4ft, 4000 Nominal Lumens, 80 CRI, 4000K, Curved Opal Lens, 120-277V | 4257 | 33.2 |
| | B | 2 | Lithonia Lighting | LBR6 ALO2 (1500LM) SWW1 (4000K) AR LSS MWD 80CRI | 6IN LBR Retrofit 1500LM 4000K Clear Semi--Specular Medium Wide 80CRI | 2017 | 18.97 |
| | C | 6 | Lithonia Lighting | CPHB 12000LM SEF GCL WD 35K 80CRI | Compact Pro Highbay, 12000 lumens, Standard efficiency, Glare control lens, Wide distribution, 35 K, 80CRI, | 12243 | 87.95 |

| | | | | | | |
|---|---|---|---|---|---|---|
| High Bay | + | 42.5 fc | 60.4 fc | 16.9 fc | 3.6:1 | 2.5:1 |
| Office | + | 34.3 fc | 50.4 fc | 19.7 fc | 2.6:1 | 1.7:1 |
| Restroom #1 | + | 25.5 fc | 35.1 fc | 16.7 fc | 2.1:1 | 1.5:1 |
| Restroom #2 | + | 28.6 fc | 38.1 fc | 22.0 fc | 1.7:1 | 1.3:1 |
| Showroom Area | + | 44.9 fc | 58.8 fc | 24.8 fc | 2.4:1 | 1.8:1 |
| Storage #2 | + | 37.7 fc | 45.9 fc | 32.0 fc | 1.4:1 | 1.2:1 |
| Break Room | + | 32.8 fc | 41.6 fc | 25.1 fc | 1.7:1 | 1.3:1 |

Plan View

1 E2.2 PHOTOMETRIC PLAN

SCALE : 1/4" = 1'-0"


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STATE OF CALIFORNIA
## Indoor Lighting
CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** — **NRCC-LTI-E**

*This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.*

| | | | |
|---|---|---|---|
| **Project Name:** | U-Haul Tenant Improvement | **Report Page:** | **(Page 1 of 8)** |
| **Project Address:** | 4658 Evora Road, Concord, CA 94520 | **Date Prepared:** | 2024-05-16T15:21:05-04:00 |

### A. GENERAL INFORMATION

| | | | | | |
|---|---|---|---|---|---|
| 01 | Project Location (city) | Concord | 04 | Total Conditioned Floor Area (ft²) | 5,343 |
| 02 | Climate Zone | 12 | 05 | Total Unconditioned Floor Area (ft²) | 0 |
| 03 | Occupancy Types Within Project (select all that apply): | | 06 | # of Stories (Habitable Above Grade) | 1 |
| ● Retail | | | | | |

### B. PROJECT SCOPE

*This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.*

| Scope of Work | Conditioned Spaces | | Unconditioned Spaces | |
|---|---|---|---|---|
| 01 | 02 | 03 | 04 | 05 |
| My Project Consists of (check all that apply): | Calculation Method | Area (ft²) | Calculation Method | Area (ft²) |
| ☒ New Lighting System | Area Category Method | 5343 | N/A | 0 |
| ☐ New Lighting System - Parking Garage | N/A | 0 | N/A | 0 |
| **Total Area of Work (ft²)** | 5343 | | | |



STATE OF CALIFORNIA
## Indoor Lighting
CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** — **NRCC-LTI-E**

| | | | |
|---|---|---|---|
| **Project Name:** | U-Haul Tenant Improvement | **Report Page:** | **(Page 2 of 8)** |
| | | **Date Prepared:** | 2024-05-16T15:21:05-04:00 |

### C. COMPLIANCE RESULTS

*If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.*

| *Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)* | Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts) | | | | | | Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts) | | | | Compliance Results |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 01 | 02 | 03 | 04 | | 05 | | 06 | 07 | | 08 | 09 |
| | Complete Building 140.6(c)1 (See Table I) | Area Category 140.6(c)2 / 170.2(e)4 (See Table I) | Area Category Additional 140.6(c)2G / 170.2(e)4Av ( +) (See Table J) | Tailored 140.6(c)3 / 170.2(e)4B ( +) (See Table K) | = | **Total Allowed** (Watts) | ≥ | Total Designed (Watts) (See Table F) | Adjustments: PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-) (See Table P) | = | **Total Adjusted** (Watts) *Includes Adjustments | **05 must be >= 08 140.6 / 170.2(e)** |
| **Conditioned** | | 4,038.45 | | | = | 4,038.45 | ≥ | 1,847 | | = | 1847 | COMPLIES |
| **Unconditioned** | | | | | = | | ≥ | | | = | | |
| | | | | | | | | | **Controls Compliance (See Table H for Details)** | | | COMPLIES |
| | | | | | | | | | **Rated Power Reduction Compliance (See Table Q for Details)** | | | |

### D. EXCEPTIONAL CONDITIONS

*This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.*

### E. ADDITIONAL REMARKS

*This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.*



STATE OF CALIFORNIA
## Indoor Lighting
CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** — **NRCC-LTI-E**

| | | | |
|---|---|---|---|
| **Project Name:** | U-Haul Tenant Improvement | **Report Page:** | **(Page 3 of 8)** |
| | | **Date Prepared:** | 2024-05-16T15:21:05-04:00 |

### F. INDOOR LIGHTING FIXTURE SCHEDULE

*This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.*

**Designed Wattage: Conditioned Spaces**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Name or Item Tag | Complete Luminaire Description | Modular (Track) Fixture | Small Aperture & Color Change[1] | Watts per luminaire[2] | How is Wattage determined | Total Number of Luminaires | Excluded per 140.6(a)3 / 170.2(e)2C | Design Watts | Field Inspector | |
| | | | | | | | | | Pass | Fail |
| A/A EM | LITHONIA STAK 2x4 4000LM 80CRI 40K COL MIN10 ZT MVOLT/E10WLCP | No | NA | 33 | Mfr. Spec | 39 | No | 1,287 | ☐ | ☐ |
| B | LITHONIA LBR6 NCH ALO2 SWW1 AR LSS MVD MVOLT UGZ | No | NA | 19 | Mfr. Spec | 2 | No | 38 | ☐ | ☐ |
| HB/HB EM | LITHONIA CPHB 12000LM SEF GCL MD MVOLT GZ10 40K 80CRI LSXR6 DWH/E10WCP | No | NA | 87 | Mfr. Spec | 6 | No | 522 | ☐ | ☐ |
| | | | | | | | **Total Designed Watts: CONDITIONED SPACES** | 1,847 | | |

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

### G. MODULAR LIGHTING SYSTEMS

*This section does not apply to this project.*



STATE OF CALIFORNIA
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| **Project Name:** | U-Haul Tenant Improvement | **Report Page:** | **(Page 4 of 8)** |
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### H. INDOOR LIGHTING CONTROLS (Not including PAFs)

*This table includes lighting controls for conditioned and unconditioned spaces.*

**Building Level Controls**

| 01 | 02 | 03 | |
|---|---|---|---|
| | | Field Inspector | |
| | | Pass | Fail |
| Mandatory Demand Response 110.12(c) | Shut-off controls 130.1(c) / 160.5(b)4C | ☐ | ☐ |
| NA < 4,000W subject to multilevel | See Area/Space Level Controls | | |

**Area Level Controls**

| 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | |
|---|---|---|---|---|---|---|---|---|---|
| Area Description | Complete Building or Area Category Primary Function Area | Manual Area Controls 130.1(a) / 160.5(b)4A | Multi-Level Controls 130.1(b) / 160.5(b)4B | Shut-Off Controls 130.1(c) // 160.5(b)4C | Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D | Secondary Daylighting 130.1(d) / 160.5(b)4D | Interlocked Systems 140.6(a)1/ 170.2(e)2A | Field Inspector | |
| | | | | | | | | Pass | Fail |
| Retail Area | Retail Merchandise Sales Wholesale Showroom | Readily Accessible | NA: General Ltg <= 0.5W/SF | Occupancy Sensor | NA: General Ltg < 120W | NA: General Ltg < 120W | No | ☐ | ☐ |
| Storage Room | Storage - MF common areas | Readily Accessible | NA: General Ltg <= 0.5W/SF | Occupancy Sensor | NA: Not daylit zone | NA: Not daylit zone | No | ☐ | ☐ |
| Restrooms | Restroom | Readily Accessible | NA: Restrooms | Occupancy Sensor | NA: Not daylit zone | NA: Not daylit zone | No | ☐ | ☐ |
| Breakroom | Lounge | Readily Accessible | NA: General Ltg <= 0.5W/SF | Occupancy Sensor | NA: Not daylit zone | NA: Not daylit zone | No | ☐ | ☐ |
| Office | Office ( <=250 square feet) | Readily Accessible | NA: General Ltg <= 0.5W/SF | Occupancy Sensor | NA: Not daylit zone | NA: Not daylit zone | No | ☐ | ☐ |
| Hitch Bay | Auto Repair | Readily Accessible | NA: General Ltg <= 0.5W/SF | Occupancy Sensor | NA: Not daylit zone | NA: Not daylit zone | No | ☐ | ☐ |
| | | | | | 13 | | | | |
| | | | | | Plan Sheet Showing Daylit Zones: | | | | |
| | | | | | | | | | |



STATE OF CALIFORNIA
## Indoor Lighting
CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** — **NRCC-LTI-E**

| | | | |
|---|---|---|---|
| **Project Name:** | U-Haul Tenant Improvement | **Report Page:** | **(Page 5 of 8)** |
| | | **Date Prepared:** | 2024-05-16T15:21:05-04:00 |

### I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

*Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .*

**Conditioned Spaces**

| 01 | 02 | 03 | 04 | 05 | 06 | |
|---|---|---|---|---|---|---|
| Area Description | Complete Building or Area Category Primary Function Area | Allowed Density (W/ft²) | Area (ft²) | Allowed Wattage (Watts) | Additional Allowance / Adjustment | |
| | | | | | Area Category | PAF |
| Retail Area | Retail Merchandise Sales Wholesale Showroom | 0.95 | 2,788 | 2,648.6 | No | No |
| Storage Room | Storage - MF common areas | 0.45 | 381 | 171.45 | No | No |
| Restrooms | Restroom | 0.65 | 106 | 68.9 | No | No |
| Breakroom | Lounge | 0.55 | 153 | 84.15 | No | No |
| Office | Office ( <=250 square feet) | 0.65 | 121 | 78.65 | No | No |
| Hitch Bay | Auto Repair | 0.55 | 1,794 | 986.7 | No | No |
| | | **TOTALS:** | 5,343 | 4,038.45 | See Tables J, or P for detail | |

### J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

*This section does not apply to this project.*

### K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

*This section does not apply to this project.*

### L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

*This section does not apply to this project.*

### M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

*This section does not apply to this project.*



STATE OF CALIFORNIA
## Indoor Lighting
CALIFORNIA ENERGY COMMISSION

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| | | | |
|---|---|---|---|
| **Project Name:** | U-Haul Tenant Improvement | **Report Page:** | **(Page 6 of 8)** |
| | | **Date Prepared:** | 2024-05-16T15:21:05-04:00 |

### N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

*This section does not apply to this project.*

### O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

*This section does not apply to this project.*

### P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

*This section does not apply to this project.*

### Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

*This section does not apply to this project.*

### R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

*This section does not apply to this project.*

### S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

*This section does not apply to this project.*

### T. DWELLING UNIT LIGHTING

*This section does not apply to this project.*



INDOOR LIGHTING COMPLIANCE CERTIFICATE

NRCC-LTI-E

STATE OF CALIFORNIA
## Indoor Lighting
CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** — **NRCC-LTI-E**

| | | | |
|---|---|---|---|
| **Project Name:** | U-Haul Tenant Improvement | **Report Page:** | **(Page 7 of 8)** |
| | | **Date Prepared:** | 2024-05-16T15:21:05-04:00 |

### U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

*Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online*

| Form/Title |
|---|
| NRCI-LTI-E - Must be submitted for all buildings |

### V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

*Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html*

| Form/Title | Systems/Spaces To Be Field Verified |
|---|---|
| NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls. | Retail Area; Storage Room; Restrooms; Breakroom; Office; Hitch Bay |



STATE OF CALIFORNIA
## Indoor Lighting
CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** — **NRCC-LTI-E**

| | | | |
|---|---|---|---|
| **Project Name:** | U-Haul Tenant Improvement | **Report Page:** | **(Page 8 of 8)** |
| **Project Address:** | 4658 Evora Road, Concord, CA 94520 | **Date Prepared:** | 2024-05-16T15:21:05-04:00 |

### DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

**I certify that this Certificate of Compliance documentation is accurate and complete.**

| | |
|---|---|
| Documentation Author Name: Kirk Soderquist | Documentation Author Signature: |
| Company: North State Electrical Contractors, Inc. | Signature Date: 5/16/24 |
| Address: 11101 White Rock Rd | CEA/ HERS Certification Identification (if applicable): |
| City/State/Zip: Rancho Cordova, CA 95670 | Phone: 916-572-0571 |

### RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

| | |
|---|---|
| Responsible Designer Name: Rodney Bingaman | Responsible Designer Signature: |
| Company: North State Electrical Contractors, Inc. | Date Signed: 5/16/24 |
| Address: 11101 White Rock Rd. | License: 886289 |
| City/State/Zip: Rancho Cordova, CA 95670 | Phone: 916-572-0571 |



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CA LICENSE C7/C10 #886289
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Tel: 916-572-0571 | Fax: 916-572-0576

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# U-HAUL TENANT IMPROVEMENT
4658 EVORA ROAD
CONCORD, CALIFORNIA 94520

Unnamed

| DATE | REMARKS |
|---|---|
| 05/17/2024 | PERMIT SUBMITTAL |

| | |
|---|---|
| **PA/PM:** | E.Eyerly |
| **DRAWN BY.:** | K.Soderquist |
| **JOB NO.:** | SNR24-0001-00 |

**SHEET**

ET24.1

5/3/2024 10:45:37 AM

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STATE OF CALIFORNIA
## Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-ELC-E |
|---|---|
| *This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2 (b)4Bvii* | |
| **Project Name:** U-Haul Tenant Improvement | **Report Page:** (Page 1 of 4) |
| **Project Address:** 4658 Evora Road, Concord, CA 94520 | **Date Prepared:** 2024-05-16T15:30:13-04:00 |

### A. GENERAL INFORMATION

| | | | | | |
|---|---|---|---|---|---|
| 01 | Project Location (city) | Concord | 02 | Climate Zone | 12 |
| | | | 03 | Occupancy Types Within Project: | Retail |

### B. PROJECT SCOPE

*This table includes electrical systems that are within the scope of the permit application.*

| 01 | 02 | 03 | 04 | 05 | 06 | 07 |
|---|---|---|---|---|---|---|
| Electrical Service Designation/ Description | Scope of Work[1] | Rating[2] (kVA) | Utility Provided Metering System Exception to 130.5(a)/ 160.6(a)[3] | System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b) | Demand Response Controls | Provides power to dwelling units/common living areas only in multifamily occupancy |
| Addition of Panel H1 | Add/Alt to feeders and branch circuits only | --- | ☐ | ☐ | Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/ 160.3, 130.1/ 160.5, and 130.3/ 160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required. | ☐ |

*[1] FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.*
*[2] If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.*
*[3] Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.*



STATE OF CALIFORNIA
## Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-ELC-E |
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| **Project Name:** U-Haul Tenant Improvement | **Report Page:** (Page 2 of 4) |
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### C. COMPLIANCE RESULTS

*Results in this table are automatically calculated from data input and calculations in Tables F through J. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.*

| 01 | | 02 | | 03 | | 04 | 05 | 06 |
|---|---|---|---|---|---|---|---|---|
| Service Electrical Metering 130.5(a)/ 160.6(a) (See Table F) | AND | Separation for Monitoring 130.5(b)/ 160.6(b) (See Table G) | AND | Voltage Drop 130.5(c)/ 160.6(c) (See Table H) | AND | Controlled Receptacles 130.5(d)/ 160.6(d) (See Table I) | Electric Ready 160.9 (See Table J) | **Compliance Results** |
| | AND | | AND | Yes | AND | | | COMPLIES |

### D. EXCEPTIONAL CONDITIONS

*This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.*

### E. ADDITIONAL REMARKS

*This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.*

### H. VOLTAGE DROP

*This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/ 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2Piii/ 180.2(b)4Bviic.*

| 01 | 02 | | | | 03 | 04 | 05 | |
|---|---|---|---|---|---|---|---|---|
| Electrical Service Designation/Description | Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method | | | | Location of Voltage Drop Calculations[1] | Sheet Number for Voltage Drop Calculations in Construction Documents | Field Inspector | |
| | | | | | | | Pass | Fail |
| Addition of Panel H1 | ☒ | Voltage drop less than 5% | ☐ | Permitted by CA Elec Code (Exception to 130.5(c))* | In construction documents | Sheet E0.2 | ☐ | ☐ |

** NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

*[1] FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".*



STATE OF CALIFORNIA
## Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-ELC-E |
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### K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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| Form/Title |
|---|
| NRCI-ELC-E - Must be submitted for all buildings |

### L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

*There are no forms required for this project.*



ELECTRICAL POWER DISTRIBUTION COMPLIANCE

CERTIFICATE

NRCC-ELC-E

STATE OF CALIFORNIA
## Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-ELC-E |
|---|---|
| **Project Name:** U-Haul Tenant Improvement | **Report Page:** (Page 4 of 4) |
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# U-HAUL TENANT IMPROVEMENT
4658 EVORA ROAD
CONCORD, CALIFORNIA 94520

Unnamed

| DATE | REMARKS |
|---|---|
| 05/17/2024 | PERMIT SUBMITTAL |

| | |
|---|---|
| **PA/PM:** | E.Eyerly |
| **DRAWN BY.:** | K.Soderquist |
| **JOB NO.:** | SNR24-0001-00 |

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